### ALFAGOMMA

ALEA

### Industrial Rubber Hoses by Kuriyama





ISO 9001 ISO 14000







# Establishing a Legacy

Throughout the world, the name Alfagomma is synonymous with quality, a reputation based on first class hose products, a commitment to research and development and ongoing capital investment. Alfagomma's development and product engineering continues to produce fluid transfer and material handling product innovations that assure excellent performance and cost savings for customers.

Alfagomma rubber hoses are manufactured in their facility located in Teramo, Italy. This factory has earned registration under ISO 9001, a quality assurance model against which a plant's quality systems are audited. The standard represents an international consensus on good management practices, and sets out the requirements for an organization whose business processes range all the way from design and development to production. This commitment to quality is the primary reason behind Alfagomma's 60-years of success.



Alfagomma headquarters - Vimercate, Italy



Alfagomma Rubber Industrial Hose Manufacturing facility – Teramo, Italy



**Kuriyama of America, Inc.** – North American headquarters and main warehouse (shown below), is located at 360 East State Parkway, Schaumburg, IL. Kuriyama is the exclusive U.S. distributor of Industrial Rubber Hose products manufactured by ALFAGOMMA S.p.A. KOA also has four additional warehouses throughout the U.S., where Alfagomma hose products are stocked.



Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





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	CODE LEGEND FOR AVAILABLE COLORS									
(Refers to last two letters of the Series number.)										
A = BLACK	D = WINE RED	G = GREEN	J = TAN	M = SILVER						
B = GREY	E = BLUE	H = RED	K = YELLOW	O = TRANSLUCENT						
	F = PURPLE	I = ORANGE	L = WHITE							

Note: The second to last letter refers to the hose tube color and the last letter refers to the hose cover color.

Alfagomma® hoses are produced using silicone free release agents.

Please call your local Kuriyama Warehouse for availability of products/sizes shown.

NOTE: Although every effort has been made to accurately show the color of the ALFAGOMMA hoses in the catalog, because of the limitation of four-color process printing, some of the colors shown herein may not be exact.

The "Alfagomma" trademark contained in this publication is a registered trademark of Alfagomma S.p.A. The "Kuriyama-Couplings" and "Biofuel Friendly Products" trademarks are trademarks of Kuriyama of America, Inc.



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	CADE MAINTENANCE AND	) STORAGE	
		) STORAGE	
		HART	
		& LIMITED WARRANTY	
		willty for use of its products in applications other than those for which they were designed	

- 1. Kuriyama of America, Inc. disclaims any liability for use of its products in applications other than those for which they were designed.
- 2. Weights and dimensions are nominal.
- 3. Pictures shown are for illustration purposes only. Actual hose construction may vary.





#### **Chemical Application Guide**

PRODUCT	PAGE	AGRICULTURAL FERTILIZERS	CHEMICAL SOLUTIONS	CHEMICAL/SOLVENT TRANSFER
T5050G	40	<b>V</b>	<b>V</b>	<b>V</b>
T5090E	41	<b>✓</b>	<b>✓</b>	<b>✓</b>
T5190E	42	<b>✓</b>	<b>✓</b>	<b>✓</b>

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).

#### **Compressed Air Application Guide**

PRODUCT	PAGE	CONSTRUCTION AIR SERVICE	HEAVY Duty	HIGH HEAT	HIGH PRESSURE AIR	HOT AIR BLOWER HOSE
T140AK	10	<b>✓</b>	<b>✓</b>		<b>V</b>	
T142AK	11	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	
T155AK	12	<b>✓</b>				
T902AA	13			<b>✓</b>		<b>✓</b>
T903LE	14			<b>✓</b>		<b>V</b>

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).

#### Food Transfer Application Guide - FDA Liquid

PRODUCT	PAGE	ABRASIVE MATERIAL SUCTION & DISCHARGE, WET/DRY	DRY BULK FOOD Discharge	FDA	3A	ALCOHOLIC BEVERAGE DISCHARGE
T400LB	29			~	~	<b>✓</b>
T400LL	28			<b>✓</b>	<b>/</b>	✓
T410LB	31			<b>✓</b>	~	✓
T410LL	30			<b>/</b>	<b>/</b>	<b>✓</b>
T422LH	32			<b>✓</b>	~	✓
T426LB	33			<b>/</b>	<b>/</b>	<b>✓</b>
T452LE	35			<b>✓</b>		
T455LL	34			<b>V</b>	~	<b>✓</b>

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).

#### Food Transfer Application Guide – FDA Material Handling

PRODUCT	PAGE	ABRASIVE MATERIAL SUCTION & DISCHARGE, WET/DRY	DRY BULK FOOD Discharge	FDA	3A	ALCOHOLIC BEVERAGE DISCHARGE
T714LG	38	<b>✓</b>		~		
T720LG	37	<b>✓</b>	<b>✓</b>	<b>/</b>		
T760LE	39		<b>V</b>	<b>/</b>		

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 20°C (68°F).

#### **Material Handling Application Guide - Non FDA**

PRODUCT	PAGE	ABRASIVE MATERIAL	ABRASIVE SLURRY	CEMENT, WET	CONCRETE	DRY BULK FOOD
PNUDUGI	PAUE	TRANSFER, WET/DRY	TRANSFER	PUMPING	PUMPING	DISCHARGE
HWT763AA	72	✓	<b>✓</b>			
T704HA	63	✓				
T720AA	66	✓	<b>✓</b>			
T737AA	68			<b>✓</b>	<b>✓</b>	
T740AA	67			<b>✓</b>	<b>✓</b>	
T753AA	65					
T753AG	65					
T755AA	64					
T757AA	68			<b>✓</b>	<b>✓</b>	
T758AA	69			<b>✓</b>	<b>✓</b>	
T758AE	69			<b>✓</b>	<b>✓</b>	
T760AA	70	✓				
T763AA	71	<b>✓</b>	<b>✓</b>			
T766AA	73	<b>✓</b>	<b>✓</b>			
W. I. D		and at ambient temperatur	f COOF (0000)			

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).





TUBE COMPOUND	PSI RATING	4 + 4 SP	TEMP	VACUUM HG (IN)
XLPE	240	<b>V</b>	-22°F TO 176°F	✓
UHMWPE	240	<b>✓</b>	-22°F TO 200°F	<b>V</b>
UHMWPE	240		-22°F TO 200°F	<b>V</b>

MINES / QUARRIES	OIL RESISTANT	FDA	PSI Rating	STEEL BRAIDED WIRE	ТЕМР	VACUUM HG (IN)
✓			See Catalog	<b>✓</b>	-22°F TO 176°F	
✓	<b>✓</b>		600	✓	-40°F TO 242°F	
✓			300		-22°F TO 176°F	
			150		-40°F TO 350°F	<b>✓</b>
		/	150		-40°F TO 350°F	<b>✓</b>

ALCOHOLIC BEVERAGE S & D	OIL BASED FOOD SUCTION & DISCHARGE	OIL BASED FOOD DISCHARGE	POTABLE WATER	PSI RATING CONSTANT	LIQUID FOODS TEMP	FAT FOODS TEMP	VACUUM HG (IN)
<b>✓</b>	<b>✓</b>	<b>✓</b>		150	-22°F TO 230°F	-22°F TO 248°F	<b>✓</b>
<b>✓</b>	✓	<b>✓</b>		150	-22°F TO 230°F	-22°F TO 248°F	<b>✓</b>
<b>✓</b>				240	-22°F TO 226°F		<b>✓</b>
<b>✓</b>				240	-22°F TO 226°F		<b>✓</b>
<b>✓</b>				150	-22°F TO 226°F		
<b>✓</b>	<b>✓</b>			150	-22°F TO 176°F		<b>✓</b>
			V	150	-22°F TO 176°F		
		<b>V</b>		150	-22°F TO 176°F		

ALCOHOLIC Beverage S & D	OIL BASED FOOD SUCTION & DISCHARGE	OIL BASED FOOD DISCHARGE	POTABLE Water	PSI RATING Constant	TEMP	VACUUM Hg (IN)
				75	-22°F TO 176°F	<b>✓</b>
				See Catalog	-22°F TO 176°F	<b>✓</b>
				75	-22°F TO 176°F	

DRY POWDER DELIVERY, CEMENT/SAND	GROUT	PLASTER	SHOT & SAND BLAST, DRY ABRASIVE DELIVERY	PSI Rating	ТЕМР	VACUUM HG (IN)
				75	-22°F TO 176°F	
				150	-40°F TO 212°F	<b>✓</b>
				See Catalog	-22°F TO 176°F	
				600	-22°F TO 176°F	
				1275	-22°F TO 176°F	
			✓	180	-22°F TO 176°F	
			✓	180	-22°F TO 176°F	
			✓	180	-22°F TO 176°F	<b>✓</b>
	<b>✓</b>	<b>✓</b>		600	-22°F TO 176°F	
	<b>✓</b>	<b>✓</b>		800	-22°F TO 176°F	
<b>✓</b>				800	-22°F TO 176°F	
✓				75	-22°F TO 176°F	
<b>✓</b>				75	-22°F TO 176°F	
<b>✓</b>				150	-22°F TO 176°F	





#### **Petroleum Application Guide**

PRODUCT	PAGE	AROMATIC CONTENT	BILGE PUMP	BIOFUELS (UP TO E98 AND B100)	CORRUGATED COVER	FUEL / OIL SUCTION & DISCHARGE	HOT TAR & ASPHALT SUCTION & DISCHARGE
6C5AA	54	~			<b>✓</b>	<b>✓</b>	
CT601AA	50	<b>✓</b>			<b>✓</b>		
ST6D2AA	49						
T6D1AA	48						
T600AA	44-45						
T601AA	51	~					
T604AA	52						
T605AA	53	<b>✓</b>				<b>✓</b>	
T605AH	55	<b>✓</b>				✓	
T606AE	56	<b>✓</b>			<b>✓</b>	<b>✓</b>	
T614AA	60						✓
T620AA	57	<b>✓</b>				<b>✓</b>	
T629AA	58	<b>✓</b>		<b>✓</b>		<b>✓</b>	
T631AA	61						✓
T631AE	62						
T650AH	59						
T653AA	46-47		<b>V</b>				

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).

#### **Specialty Hoses Application Guide**

PRODUCT	PAGE	FURNACE DOOR COOLANT	MSHA UNDERGROUND Mine Compliant
T146AK	74		✓
T957LL	75	<b>✓</b>	

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).

#### **Steam & Hot Water Application Guide**

PRODUCT	PAGE	STEAM CLEANER USE/ DETERGENTS OR OIL	HIGH TENSILE STEEL CORD REINFORCEMENT	RADIATOR	HOT Water	PIN-PRICKED COVER	PSI RATING CONSTANT
T340AA	25	NO	<b>✓</b>			<b>~</b>	270
T340AH	25	NO	<b>✓</b>			<b>✓</b>	270
T341AA	26	NO	<b>✓</b>			<b>✓</b>	270
T341AH	26	NO	<b>✓</b>			<b>✓</b>	270
T343AH	27	NO	<b>✓</b>			<b>✓</b>	270
T350LH	20	NO			<b>/</b>		See Page 20
T350LL	20	NO			~		See Page 20
T351LL	21	NO			~		150
T351LG	21	NO			<b>/</b>		150
T352AA	22-23	NO		<b>✓</b>	~		75

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).

#### **Water Suction And Discharge Application Guide**

PRODUCT	PAGE	AGRICULTURAL FERTILIZERS	CHEMICAL SOLUTIONS	CONSTRUCTION	HEAVY DUTY	HIGH PRESSURE
T202AA	16	<b>✓</b>		<b>✓</b>		
T204AA	17			<b>✓</b>		
T253AA	18			✓		
T254AA	19			✓		

<sup>\*</sup> Working Pressure and vacuum ratings are based at ambient temperature of 68°F (20°C).





HYDRAULIC MARINE EXI SUCTION / RETURN / FUEL F	HAUST OIL FIELD / FRACK ILL DISCHARGE	OIL FIELD / FRACK TANK SUCTION	PETROLEUM PI DISCHARGE	ETROLEUM SUCTION / DISCHARGE	PSI	TEMP	VACUUM HG (IN)
		<b>V</b>			150	-22°F TO 176°F	<b>/</b>
		<b>✓</b>			150	-22°F TO 176°F	<b>/</b>
	<b>✓</b>				400	-22°F TO 176°F	
	<b>✓</b>				400	-22°F TO 176°F	
<b>✓</b>					75	- 4°F TO 212°F	<b>/</b>
		<b>✓</b>			150	-22°F TO 176°F	<b>/</b>
<b>✓</b>					See Catalog	-40°F TO 212°F	<b>✓</b>
				<b>✓</b>	150	-22°F TO 176°F	<b>/</b>
				<b>✓</b>	150	-22°F TO 176°F	<b>✓</b>
				<b>✓</b>	150	-65°F TO 180°F	
					150	- 4°F TO 356°F	<b>✓</b>
				<b>✓</b>	300	-22°F TO 176°F	<b>✓</b>
				<b>✓</b>	150	-22°F TO 176°F	<b>✓</b>
					300	-22°F TO 176°F	
			<b>✓</b>		300	-22°F TO 356°F	
			<b>✓</b>		150	-22°F TO 176°F	
					75	-22°F TO 176°F	

PIN-PRICKED	PSI RATING	TEMP
<b>✓</b>	1000	-22°F to 200°F
	300	Tube: -40°F to 248°F Cover: -40°F to 1000°F

SATURATED STEAM	SHIPYARDS & CHEMICAL PLANTS	REFINERY	SUPERHEATED STEAM	PAPER MILL WASH DOWN	FOOD & DAIRY Washdown	TAPPERED Nozzle	TEMP
<b>✓</b>							-40°F TO 430°F
<b>✓</b>							-40°F TO 430°F
<b>✓</b>	<b>✓</b>		<b>✓</b>				-40°F TO 430°F
<b>~</b>	<b>✓</b>		<b>✓</b>				-40°F TO 430°F
~		<b>✓</b>	<b>✓</b>				-40°F TO 430°F
				<b>✓</b>	<b>✓</b>		See Page 20
<b>✓</b>				<b>✓</b>	<b>✓</b>		See Page 20
				<b>✓</b>	<b>✓</b>	<b>✓</b>	-40°F TO 248°F
				<b>✓</b>	<b>V</b>	<b>V</b>	-40°F TO 248°F
							-40°F TO 248°F

IRRIGATION	LAYFLAT	MAX. REC. WP (PSI)	STEEL HELIX	WATER DISCHARGE	WATER SUCTION	TEMP	VACUUM HG (IN)
<b>✓</b>		150	<b>✓</b>	<b>✓</b>	<b>✓</b>	-22°F TO 176°F	<b>✓</b>
<b>✓</b>		75	<b>✓</b>	<b>✓</b>	<b>✓</b>	-22°F TO 176°F	<b>✓</b>
<b>✓</b>	<b>✓</b>	150		<b>✓</b>		-22°F TO 176°F	
<b>✓</b>		150		<b>✓</b>		-40°F TO 248°F	



### **Compressed Air**

#### ALFAGOMMA®

#### **T140AK Series**

**Braided Steel Wire Air Hose** 



#### **General Applications:**

High pressure air hose for heavy-duty use in mines, quarries, construction and industry.

#### **Construction:**

**Tube:** Black Extruded SBR – resistant to oil mist. **Reinforcement:** High tensile steel wire braids. **Cover:** Yellow SBR – abrasion and ozone

resistant – pin pricked.

#### **Working Pressure:**

Constant Pressure -

40 Bar (600 PSI): 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

30 Bar (450 PSI): 2 1/2", 3", 4"

#### Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY – T140 STEEL AIR (embossed)

Nominal S	Specifi	cation	S					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)
T140AK050	1/2	13	0.87	22	600	2 1/2	50/100	0.28
T140AK075	3/4	19	1.10	28	600	4	50/100	0.37
T140AK100	1	25	1.34	34	600	5	50/100	0.47
T140AK125	1 1/4	32	1.65	42	600	6 1/2	50/100	0.72
T140AK150	1 1/2	38	1.89	48	600	7 1/2	50/100	0.86
T140AK200	2	51	2.52	64	600	10	50/100	1.34
T140AK250	2 1/2	63	3.03	77	450	12 1/2	50/100	1.64
T140AK300	3	76	3.54	90	450	15	50/100	1.95
T140AK400	4	102	4.65	118	450	20	50/100	2.75

#### **COUPLING SUGGESTIONS**

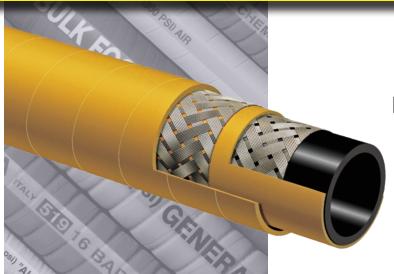
Steel or malleable iron male insert NPT, female ground joint or washer type with spud, or universal quick-acting couplings attached with 2 or 4 bolt interlocking clamps or bands.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



#### **ALFAGOMMA**

### **Compressed Air**



#### **T142AK Series**

High Temperature – Oil Resistant Steel Braided Reinforced Air Hose

#### **General Applications:**

High pressure air for mines and quarries. Designed for long lasting service and maximum safety in heavy duty applications where resistance to oil is required.

#### **Construction:**

**Tube:** Black Extruded NBR (RMA Class A) – oil mist resistant.

niist resistant. Poinforceme

**Reinforcement:** High tensile steel wire braids. **Cover:** Yellow SBR/NBR – abrasion, ozone, hydrocarbon and flame resistant – pin pricked.

#### **Working Pressure:**

40 Bar (600 PSI) 2" 30 Bar (450 PSI) 2 1/2", 3"

#### **Service Temperature Range:**

-40°F (-40°C) to +248°F (+120°C)

#### **Branding:**

ALFAGOMMA – ITALY T142 HIGH TEMP STEEL AIR – OIL RESISTANT (embossed)

<b>Nominal</b> 9	Specifi	cations						
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)
T142AK200	2	51	2.52	64	600	10	50/100	1.16
T142AK250	2 1/2	63	3.03	77	450	12 1/2	100	1.93
T142AK300	3	76	3.54	90	450	15	50/100	1.91

#### **COUPLING SUGGESTIONS**

Steel or malleable iron male insert NPT, female ground joint or washer type with spud, or universal quick-acting couplings attached with 2 or 4 bolt interlocking clamps or bands.

k Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **Compressed Air**

#### ALFAGOMMA®

#### **T155AK Series**

300 PSI Textile Cord "Air Drill" Hose



#### **General Applications:**

High quality air hose for mining and construction service.

#### **Construction:**

**Tube:** Black SBR/NBR blend – oil mist resistant. **Reinforcement:** Spiraled, high tensile textile

ords.

Cover: Yellow SBR - abrasion and ozone-

resistant.

#### **Working Pressure:**

Constant Pressure – 20 Bar (300 PSI)

#### Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

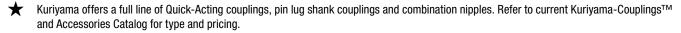
ALFAGOMMA – ITALY – T155 20 BAR (300 PSI)

AIR (in blue letters)

<b>Nominal</b>	Specific	ations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T155AK050	1/2	13	0.83	21	300	50/100	0.22
T155AK075	3/4	19	1.14	29	300	100	0.38
T155AK100	1	25	1.38	35	300	50/100	0.48
T155AK125	1 1/4	32	1.73	44	300	100	0.60
T155AK150	1 1/2	38	1.97	50	300	100	0.70
T155AK200	2	51	2.56	65	300	50/100	1.12
T155AK250	2 1/2	63	3.11	79	300	50/100	1.55
T155AK300	3	76	3.62	92	300	50/100	1.89
T155AK400	4	102	4.65	118	300	50/100	2.47

#### **COUPLING SUGGESTIONS**

Steel or malleable iron male insert NPT, female ground joint or washer type with spud, attached with 2 or 4 bolt interlocking clamps or bands. Universal couplings may be used on sizes (1/2" - 2")





#### ALFAGOMMA®

### **Compressed Air**



# **T902AA Series**150 PSI High Quality Hot Air Blower Hose

#### **General Applications:**

Hot air transfer between the air compressor and dry bulk tank on bulk material carriers.

#### **Construction:**

Tube: Black EPDM - heat-resistant.

Reinforcement: Spiraled high tensile textile

cords with flexible steel helix wire.

Cover: Black EPDM - heat, abrasion and ozone

resistant.

#### **Working Pressure:**

Constant Pressure – 10 Bar (150 PSI)

#### Service Temperature Range:

-40°F (-40°C) to +356°F (+180°C)

#### **Branding:**

ALFAGOMMA - ITALY T902 10 BAR (150 PSI) -

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HOT AIR SERVICE (in white letters)

Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)		
T902AA200	2	51	2.48	63	150	30	6	100	1.01		
T902AA300	3	76	3.54	90	150	27	9	100	1.60		
T902AA400	4	102	4.57	116	150	27	12	100	2.23		

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **Compressed Air**

#### ALFAGOMMA®

#### **T903LE Series**

150 PSI High Quality FDA Hot Air Blower Hose



#### **General Applications:**

Hot air transfer between the air compressor and dry bulk tank on bulk material carriers.

#### **Construction:**

**Tube:** White EPDM – heat-resistant. Meets FDA requirements.

Reinforcement: Spiraled high tensile textile

cords with flexible steel helix wire.

Cover: Blue EPDM – heat, abrasion and ozone

resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### Service Temperature Range:

-40°F (-40°C) to +356°F (+180°C)

#### **Branding:**

ALFAGOMMA – ITALY T903 10 BAR (150 PSI) – HOT AIR SERVICE – FDA (in white letters)

Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)		
T903LE300	3	76	3.54	90	150	27	9	100	1.65		
T903LE400	4	102	4.57	116	150	27	12	100	2.26		

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



#### **ALFAGOMMA**






### **Water Suction**



# T202AA Evolution Series 150 PSI EPDM General Purpose Water S & D Hose

FOR APPLICATIONS INVOLVING INDUSTRIAL ACID CHEMICALS AND ALCOHOLS, PLEASE REFER TO T505OG AND T509OE CHEMICAL HOSES



Water suction and delivery hose. Suction and discharge of non-corrosive liquids for irrigation, construction, fertilizers and lasso acid solutions.

#### **Construction:**

Tube: Black EPDM.

Reinforcement: Spiraled high tensile textile

cords with flexible steel helix wire.

Cover: Black EPDM - abrasion and ozone

resistant.



#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

-40°F (-40°C) to +212°F (+100°C)

#### **Branding:**

ALFAGOMMA – ITALY – 202 EVOLUTION 10 BAR (150 PSI) GENERAL PURPOSE EPDM (in green letters)

Nominal	Speci	ficati	ons						
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)
T202AA100	1	25	1.42	36	150	30	2	100	0.48
T202AA125	1 1/4	32	1.69	43	150	30	2.5	100	0.58
T202AA150	1 1/2	38	1.93	49	150	30	3	100	0.68
T202AA200	2	51	2.44	62	150	30	4	100	0.88
T202AA250	2 1/2	63	2.99	76	150	30	7.5	100	1.36
T202AA300	3	76	3.50	89	150	30	9	100	1.61
T202AA350	3 1/2	90	4.02	102	150	30	10.5	100	1.82
T202AA400	4	102	4.57	116	150	30	12	100	2.22
T202AA500	5	127	5.55	141	150	25	18	20/50	3.18
T202AA600	6	152	6.61	168	150	25	24	20/25/50/100	3.59
T202AA800	8	203	8.70	221	150	25	32	20/25	6.64
T202AA1000	10	254	10.71	272	150	25	50	20	9.09
T202AA1200	12	305	12.87	327	150	25	61	20	12.54

#### COUPLING SUGGESTIONS

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.





### **Water Suction**



# T204AA Series 75 PSI SBR Water S & D Hose

#### **General Applications:**

Suction and discharge of water for irrigation and construction.

#### **Construction:**

Tube: Black SBR.

Reinforcement: Spiraled high tensile textile

cords with flexible steel helix wire.

Cover: Black SBR - ozone and abrasion-

resistant.

#### **Working Pressure:**

Constant Pressure - 5 Bar (75 PSI)

#### Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA-ITALY - T204 (embossed)

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Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)		
T204AA600	6	152	6.54	166	75	24	30	20/25/50/100	4.13		
T204AA800	8	203	8.70	221	75	21	40	20/25	7.06		

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **Water Discharge**

#### **ALFACOMMA**

**T253AA Series** 150 PSI EPDM Layflat Water Discharge Hose

FOR APPLICATIONS INVOLVING INDUSTRIAL ACID CHEMICALS AND ALCOHOLS, PLEASE REFER TO T505OG AND T509OE CHEMICAL HOSES



#### **General Applications:**

High pressure, 150 PSI lay flat type hose for general industrial construction and irrigation.

#### **Construction:**

Tube: Black EPDM.

**Reinforcement:** High tensile textile cords. **Cover:** Black EPDM – abrasion and ozone-

resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

Alfagomma - Italy - T253 10 Bar (150 PSI) EPDM

WATER DISCHARGE (in green letters)

<b>Nominal</b>	Specific	ations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T253AA150	1 1/2	38	1.81	46	150	100	0.37
T253AA200	2	51	2.32	59	150	100	0.50
T253AA250	2 1/2	63	2.80	71	150	100	0.60
T253AA300	3	76	3.31	84	150	100	0.86
T253AA400	4	102	4.33	110	150	100	1.19
T253AA600	6	152	6.38	162	150	50/100	2.00
T253AA662	6 5/8*	168	7.01	178	150	50/100	2.17
T253AA800	8	203	8.46	215	150	50/100	2.82
T253AA1000	10	254	10.63	270	150	50100	5.11
T253AA1200	12	305	12.56	319	150	50	5.93

<sup>\* 65/8&</sup>quot; referred to as Elephant Trunk Hose – Ideal for "Irrigation Boots."

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.





### **Water Discharge**



T254AA Series
150 PSI SBR Water
Discharge Hose

#### **General Applications:**

Water discharge hose for construction and irrigation.

#### **Construction:**

Tube: Black SBR.

**Reinforcement:** High tensile textile cords. **Cover:** Black SBR – abrasion and ozone-

resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

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-22°F (-30°C) to +176°F (+80°C)

Nominal Specifications										
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)			
T254AA150	1 1/2	38	1.89	48	150	100	0.66			
T254AA200	2	51	2.40	61	150	100	0.87			
T254AA300	3	76	3.46	88	150	100	1.54			
T254AA400	4	102	4.49	114	150	100	2.08			
T254AA600	6	152	6.54	166	150	100	3.13			
T254AA800	8	203	8.62	219	150	50/100	4.64			

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **Hot Water**

#### ALFACOMMA<sup>®</sup>

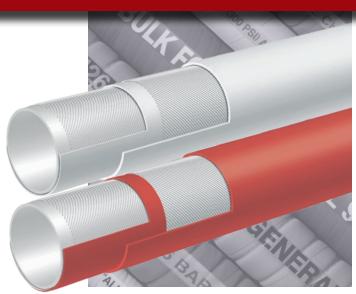
#### T350LL / T350LH

225 PSI Premium Paper Mill/Creamery Wash Down Hose – No Nozzle

3-A

T350LL White Cover

> T350LH Red Cover



#### **General Applications:**

For general wash down service, using hot water or low pressure saturated steam in processing plants and facilities and in food and dairy plants.

#### **Construction:**

**Tube:** White EPDM. Meets FDA and 3A (18-03) requirements.

**Reinforcement:** High tensile textile cords. **Cover:** Red EPDM – heat, abrasion and ozone resistant. White EPDM – heat, abrasion and ozone resistant.

#### **Working Pressure:**

Constant Pressure - 15 Bar (225 PSI)

#### **Steam Pressure:**

Constant Pressure – 6 Bar (90 PSI)

#### **Service Temperature Range:**

Water -40°F (-40°C) to +248°F (+120°C) Steam +330°F to (+165°C)

#### **Branding:**

ALFAGOMMA - ITALY - T350 6 BAR (90 PSI) STEAM 15 BAR (225 PSI) HOT WATER (embossed)

#### **Standard Length:**

200 feet - eliminates bulky hookups

<sup>\*</sup>T350 fully complies with the requirements listed in FDA CFR21.

<b>Nominal</b>	Specific	ations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T350LL050	1/2	13	0.91	23	225	200	0.27
T350LL062	5/8	16	1.02	26	225	200	0.31
T350LL075	3/4	19	1.22	31	225	200	0.44
T350LL100	1	25	1.46	37	225	200	0.54
T350LL125	1 1/4	32	1.81	46	225	200	0.63
T350LL150	1 1/2	38	2.05	52	225	200	0.74
T350LL200	2	51	2.64	67	225	200	1.12
T350LH075	3/4	19	1.22	31	225	200	0.44
T350LH100	1	25	1.46	37	225	200	0.54

#### **COUPLING SUGGESTIONS**

Short shank, long shank couplings (NPT, GHT), barbed inserts attached with bands.



#### ALFACOMMA<sup>®</sup>

### **Hot Water**



#### T351LL / T351LG

150 PSI Premium Paper Mill/ **Creamery Wash Down Hose** With Tapered Nozzle

T351LL **White Cover** 

T351LG **Green Cover** 

#### **General Applications:**

For general wash down service, using hot and cold water in paper mills and in food and dairy plants.

#### **Construction:**

**Tube:** White EPDM. Meets FDA and 3A (18-03)

requirements.

Reinforcement: High tensile textile cords. Cover: White or green EPDM – heat, abrasion

and ozone resistant.

#### Working Pressure:

Constant Pressure - 10 Bar (150 PSI)

#### Service Temperature Range:

-40°F (-40°C) to +248°F (+120°C)

#### Standard Length:

50 feet including 6" long built-in tapered nozzle\*

#### \*Tapered Nozzle Hole Size

3/4" and 1" ID	3/8"
1 1/4" ID	1/2"
1 1/2" ID	5/8"

<sup>\*</sup>T351 fully complies with the requirements listed in FDA CFR21.

<b>Nominal</b> 9	Specific	ations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T351LL/LG075	3/4	19	1.22	31	150	50	0.44
T351LL/LG100	1	25	1.46	37	150	50	0.54
T351LL/LG125	1 1/4	32	1.81	46	150	50	0.78
T351LL/LG150	1 1/2	38	2.05	52	150	50	0.91

#### **COUPLING SUGGESTIONS**

Short shank, long shank couplings (NPT, GHT), barbed inserts attached with bands.



### **Steam & Hot Water**

#### **BALFACOMMA**

### **T352AA Series**75 PSI Radiator Hose



#### **General Applications:**

Radiator hose.

#### **Construction:**

Tube: Black EPDM.

**Reinforcement:** High tensile textile cords. **Cover:** Black EPDM – heat, abrasion and ozone

resistant.

#### **Working Pressure:**

5 Bar (75 PSI)

#### **Service Temperature Range:**

-40°F (-40°C) to +248°F (+120°C)

#### **Branding:**

ALFAGOMMA - ITALY - T-352 RADIATOR - DIN 73411 - dia mm / in. SAE 20R1-D2 (in yellow letters)

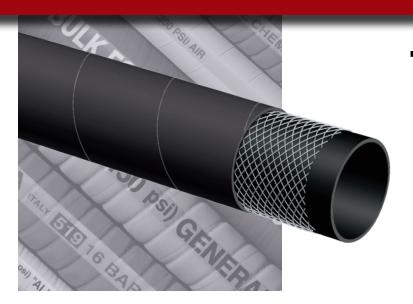
Nominal Spec	cification	S					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length Coils (ft)	Weight (lbs/ft)
T352AA050X12.6	1/2	13	0.83	21	75	12'6"	0.19
T352AA050X200	1/2	13	0.83	21	75	200'	0.19
T352AA062X12.6	5/8	16	0.94	24	75	12'6"	0.22
T352AA071X12.6	23/32	18	1.02	26	75	12'6"	0.24
T352AA078X12.6	13/16	20	1.10	28	75	12'6"	0.26
T352AA087X12.6	7/8	22	1.18	30	75	12'6"	0.28
T352AA087X200	7/8	22	1.18	30	75	200'	0.28
T352AA100X12.6	1	25	1.30	33	75	12'6"	0.32
T352AA100X200	1	25	1.30	33	75	200'	0.32
T352AA112X12.6	1 1/8	28	1.42	36	75	12'6"	0.34
T352AA112X200	1 1/8	28	1.42	36	75	200'	0.34
T352AA118X12.6	1 3/16	30	1.50	38	75	12'6"	0.37

continued



#### 

### **Hot Water**



#### **T352AA Series** 75 PSI Radiator Hose

Nominal Specif	ication	IS					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length Coils (ft)	Weight (lbs/ft)
T352AA125X12.6	1 1/4	32	1.57	40	75	12'6"	0.39
T352AA125X200	1 1/4	32	1.57	40	75	200'	0.39
T352AA137X12.6	1 3/8	35	1.69	43	75	12'6"	0.42
T352AA150X12.6	1 1/2	38	1.89	48	75	12'6"	0.57
T352AA150X200	1 1/2	38	1.89	48	75	200'	0.57
T352AA157X12.6	1 9/16	40	1.97	50	75	12'6"	0.60
T352AA157X200	1 9/16	40	1.97	50	75	200'	0.60
T352AA162X12.6	1 5/8	42	2.05	52	75	12'6"	0.63
T352AA162X200	1 5/8	42	2.05	52	75	200'	0.63
T352AA175X12.6	1 3/4	45	2.17	55	75	12'6"	0.66
T352AA175X200	1 3/4	45	2.17	55	75	200'	0.66
T352AA189X12.6	1 7/8	48	2.28	58	75	12'6"	0.70
T352AA189X200	1 7/8	48	2.28	58	75	200'	0.70
T352AA200X12.6	2	51	2.40	61	75	12'6"	0.75
T352AA200X200	2	51	2.40	61	75	200'	0.75
T352AA218X12.6	2 3/16	55	2.56	65	75	12'6"	0.80
T352AA225X12.6	2 1/4	57	2.64	67	75	12'6"	0.82
T352AA238X12.6	2 3/8	60	2.76	70	75	12'6"	0.86
T352AA250X12.6	2 1/2	63	2.87	73	75	12'6"	0.90
T352AA275X12.6	2 3/4	70	3.15	80	75	12'6"	0.97
T352AA300X12.6	3	76	3.39	86	75	12'6"	1.04
T352AA315X12.6	3 1/8	80	3.54	90	75	12'6"	1.10
T352AA354X12.6	3 9/16	90	4.02	102	75	12'6"	1.36
T352AA400X12.6	4	102	4.49	114	75	12'6"	1.52
T352AA450X12.6	4 1/2	116	5.00	127	75	12'6"	1.69
T352AA500X12.6	5	127	5.55	141	75	12'6"	2.16



### **Steam Hose Safety Facts**



(Reprinted from RMA IP-11-1 Steam Hose)

Handling steam is a very hazardous situation. Using care and some safety precaution can minimize or eliminate personal or property damage.

#### **SELECTING AND USING STEAM HOSE**

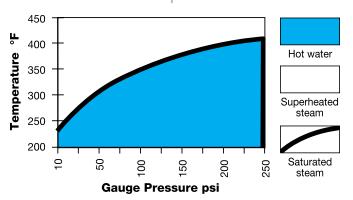
- Make sure steam hose is identified as a steam hose. It should be branded as such, stating working pressure and temperature rating.
- 2. Make sure working pressure and temperature is not exceeded.
- 3. Do not allow hose to remain under pressure when not in use.
- Avoid excess bending or flexing of hose near the coupling.
   Straight line operation is preferred. If bends are necessary as part of operation, spring guards may help.
- Be sure and use recommended steam hose couplings and clamps on hose.

#### **MAINTENANCE OF STEAM HOSE**

- Periodic inspection of hose should include looking for cover blisters and lumps.
- 2. Check for kinked areas that could damage hose.
- 3. Drain hose after each use to avoid tube damage before hose is put back in operation, to avoid "popcorning" of the tube.
- 4. Check tightness of clamps bolts after each use.
- Check to see if clamps halves are touching. If they are, recouple hose with smaller clamps to insure proper tightness or grip around hose.
- 6. Do not store hose over hooks.
- 7. Steam hose lying on metal racks or installed around steel piping will dry out the hose, causing tube and cover cracking.
- 8. For service in sub-zero application, use only T-341 chlorbutyl hose

The chart represents the three forms of water when subjected to heat and pressure. Use only hoses specifically designed for the application.

Gauge Pressure (psi)	Temperature of Saturated Steam (°F)
10	239
25	267
50	298
75	320
100	338
125	353
150	366
175	377
200	388
225	397
250	406



#### **SELECTING AND USING STEAM HOSE**

Gauge F	Pressure	Tempe	rature
psi	bar	°C	°F
25	1.73	130	267
30	2.07	134	274
35	2.42	138	281
40	2.76	141	287
45	3.11	144	292
50	3.45	148	298
60	4.14	153	307
70	4.83	158	316
80	5.52	162	324
90	6.21	166	330
100	6.90	170	338
120	8.28	177	350
140	9.66	182	361
160	11.04	188	371
180	12.42	193	379
200	13.80	198	388
225	15.53	203	397
250	17.25	208	406
275	18.98	212	414
300	20.70	216	422
325	22.43	221	429
350	24.15	225	437

#### **CORROSIVE STEAM**

When the water used to generate steam contains dissolved air, oxygen or carbon dioxide, then these gases end up as contaminants in the steam. At high temperatures of steam both oxygen and carbon dioxide are extremely corrosive.

Carbon dioxide is acidic and therefore attacks metals whereas the oxygen corrodes metals and oxidizes rubbers. Corrosion of metals in the presence of both oxygen and acids is forty times faster than with either alone. Boiler water is therefore normally treated not only to remove the "hardness" which would cause "furring" of the boiler but also to remove dissolved oxygen and carbon dioxide and to ensure that the steam is not only not acidic but even slightly alkaline. Boiler water treatment is a specialised subject beyond the scope of this technical sheet but correct steam generation is important.

#### **DETERIORATION OF STEAM HOSE**

Like all rubber products steam hoses have a finite life and are subject to gradual deterioration with use. However, it sometimes happens that hoses which have been giving a good life suddenly start failing without apparent reason. In such cases it is often a change in the steam conditions causing a rapid acceleration of a normal failure mode. It is therefore useful to consider how steam hoses normally last and thus how the condition of the steam affects hose life.



### **Steam**



### T340AH / T340AA

#### 270 PSI EPDM Braided Steam Hose

T340AH Red Cover

T340AA Black Cover

#### Warning

Handling steam is very hazardous. If it is not properly controlled it can cause property damage, injury or even death. Selection for the proper application, usage, and maintenance will not only increase hose life but will insure safe operation for the user.

#### **General Applications:**

The transfer of saturated steam up to 270 PSI and 410°F (+210°C).

★ Use with superheated steam will shorten hose life.

Proper draining of steam hose after each use will increase service life.

★ Not recommended for washdown applications where detergent or oils are present.

#### **Construction:**

**Tube:** Black extruded EPDM – heat-resistant. **Not for steam cleaner use.** 

**Reinforcement:** High tensile steel wire braids (1/2" ID - 1 wire braid, 3/4" and higher ID's - 2 wire braids).

**Cover:** Red or black EPDM – heat-resistant. Wrapped cover fabric impression. Pin-pricked cover to allow venting.

#### **Working Pressure:**

Constant Pressure - 18 Bar (270 PSI)

#### Service Temperature Range:

Saturated Steam. Constant Operation: -40°F (-40°C) to +410°F (+210°C) Intermittent to +450°F (+232°C)

#### **Branding:**

ALFAGOMMA - ITALY T340 18 BAR (270 PSI) STEAM - DRAIN AFTER USE - QTR/YEAR (embossed)

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (Ibs/ft)						
T340AH/AA050	1/2	13	0.91	23	270	5	50/100	0.28						
T340AH/AA075	3/4	19	1.22	31	270	7 1/2	200	0.52						
T340AH/AA100	1	25	1.50	38	270	10	50/100	0.60						
T340AA200	2	51	2.64	67	270	20	50/100	1.38						
T340AA250	2 1/2	63	3.19	81	270	25	100	1.99						
T340AA300	3	76	3.70	94	270	30	100	2.50						

#### REFER TO STEAM HOSE SAFETY FACTS ON PAGE 24.

#### **COUPLING SUGGESTIONS**

Steel or malleable iron male insert NPT or female ground joint or washer type with spuds attached with 2 or 4 bolt interlocking clamps.

- ★ Kuriyama offers a full line of ground joint couplings and clamps. Refer to current Kuriyama-Couplings<sup>™</sup> and Accessories Catalog for type and pricing.
- Universal quick-acting couplings should not be used with steam hose.



### **Steam**

#### **BALFACOMMA**

#### T341AH / T341AA

### 270 PSI Chlorobutyl Braided Steam Hose

#### **Warning**

Handling steam is very hazardous. If it is not properly controlled it can cause property damage, injury or even death. Selection for the proper application, usage, and maintenance will not only increase hose life but will insure safe operation for the user.

T341AH Red Cover

T341AA Black Cover



Wrapped cover fabric impression. Pin-pricked cover to allow venting.

#### **General Applications:**

The transfer of saturated and superheated steam up to 270 PSI and max 410°F (+210°C) in shipyards, chemical plants and industrial applications.

- ★ Proper draining of steam hose after each use will increase service life.
- ★ Not recommended for washdown applications where detergent or oils are present.

#### Construction:

**Tube:** Black extruded CIIR – heat-resistant.

Not for steam cleaner use.

**Reinforcement:** High tensile steel wire braids (1/2" ID – 1 wire braid, 3/4" and higher ID's – 2 wire braids).

Cover: Red or black EPDM - heat-resistant.

#### **Working Pressure:**

Constant Pressure - 18 Bar (270 PSI)

#### **Service Temperature Range:**

Saturated and Superheated Steam. Constant Operation: -40°F (-40 °C) to +410°F (+210°C) Intermittent to +450°F (+232°C)

#### **Branding:**

ALFAGOMMA – ITALY T341 18 BAR (270 PSI) STEAM – DRAIN AFTER USE – QTR/YEAR (embossed)

Nominal S	Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T341AH/AA050	1/2	13	0.91	23	270	5	50/100	0.29					
T341AH/AA075	3/4	19	1.22	31	270	7 1/2	50/100	0.53					
T341AH/AA100	1	25	1.50	38	270	10	50/100	0.62					
T341AH/AA125	1 1/4	32	1.81	46	270	12 1/2	50/100	0.89					
T341AH/AA150	1 1/2	38	2.05	52	270	15	50/100	0.97					
T341AH/AA200	2	51	2.64	67	270	20	50/100	1.44					

<sup>\*</sup>T341AA/AH 1 1/4", 1 1/2" & 2" not suitable for "Ship to Shore" service.

#### REFER TO STEAM HOSE SAFETY FACTS ON PAGE 24.

#### **COUPLING SUGGESTIONS**

Steel or malleable iron male insert NPT or female ground joint or washer type with spuds attached with 2 or 4 bolt interlocking clamps.

- ★ Kuriyama offers a full line of ground joint couplings and clamps. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.
- ★ Universal quick-acting couplings should not be used with steam hose.



### **Steam**



# **T343AH Series**270 PSI Braided Refinery Steam hose

#### Warning

Handling steam is very hazardous. If it is not properly controlled it can cause property damage, injury or even death. Selection for the proper application, usage, and maintenance will not only increase hose life but will insure safe operation for the user.

#### **General Applications:**

Saturated and superheated steam in applications where an oil resistant cover is needed.

★ Use with superheated steam will shorten hose life.

Proper draining of steam hose after each use will increase service life.

#### **Construction:**

**Tube:** Black extruded EPDM – heat-resistant.

Not for steam cleaner use.

Reinforcement: High tensile steel wire braids.

Cover: Red special compound - heat, oilresistant, ozone and hydrocarbon resistant.

Pin-pricked cover to allow venting. (Black version available upon request with minimum order

quantities.)

#### **Working Pressure:**

Constant Pressure - 18 Bar (270 PSI)

#### **Service Temperature Range:**

Saturated and Superheated Steam where an oil resistant cover is required. Constant Operation: -40°F (-40 °C) to +410°F (+210°C) Intermittent to +450°F (+232°C)

#### **Branding:**

Embossed brand ALFAGOMMA – ITALY T343 18 BAR (270 PSI) STEAM – DRAIN AFTER USE – QTR/YEAR

Nominal	Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T343AH075	3/4	19	1.22	31	270	7 1/2	50/100	0.54					
T343AH100	1	25	1.50	38	270	10	50/100	0.66					

#### REFER TO STEAM HOSE SAFETY FACTS ON PAGE 24.

#### **COUPLING SUGGESTIONS**

Steel or malleable iron male insert NPT or female ground joint or washer type with spuds attached with 2 or 4 bolt interlocking clamps.

★ Kuriyama offers a full line of ground joint couplings and clamps. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.

★ Universal quick-acting couplings should not be used with steam hose.



### **FDA Liquid Food Transfer**

#### **ALFAGOMMA**

# T400LL Evolution Series

Replacing T405LL

Multi Food S & D Hose

3-A



#### **General Applications:**

- Liquid food suction and discharge.
- Alcoholic beverages wine, beer & spirits up to 75% alcohol content and 150 proof
- Milk tanker collection & unloading-ideal for reel applications
- Hot food-constant operations: liquid food up to 230° F (110° C), fat foods up to 248° F (120° C)
- Fat foods-perfect for animal fats and any vegetable oils
- Hose may be sterilized with 266° F (130° C) steam for 30 minutes or with 5% soda solution.

#### **Construction:**

**Tube:** White NBR rubber specially compounded to satisfy the highest food industry standards. Compliant to FDA and 3A standards. Phthalate free.

**Reinforcement:** High tensile textile cords with embedded steel helix wire.

**Cover:** White NBR/PVC abrasion, weather & ozone resistant.

#### **Service Temperature Range:**

Liquid foods: -22° F (-30° C) to +230° F (+110° C) Fat foods: -22° F (-30° C) to +248° F (+120° C)

#### **Branding:**

AG -ITALY- 400 EVOLUTION 10 bar (150 psi) MULTI FOOD S&D 110 °C (230°F) FDA 3-A (food symbol)

Nominal	Nominal Specifications														
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)						
T400LL100	1	25	1.42	36	150	30	2	100	0.56						
T400LL125	1 1/4	32	1.69	43	150	30	2 1/2	100	0.68						
T400LL150	1 1/2	38	1.93	49	150	30	3	100	0.79						
T400LL200	2	51	2.48	63	150	30	4	100	1.07						
T400LL250	2 1/2	63	2.99	76	150	27	5	100	1.61						
T400LL300	3	76	3.50	89	150	27	6	100	1.94						
T400LL400	4	102	4.57	116	150	27	8	100	2.63						

CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36 OF THE ALFAGOMMA INDUSTRIAL RUBBER HOSE CATALOG.

#### **COUPLING SUGGESTIONS**

Quick-Acting or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



#### **ALFAGOMMA**°

### **FDA Liquid Food Transfer**



## T400LB Evolution Series

Replacing T405LB

Multi Food S & D Hose

3-A

#### **General Applications:**

- Liquid food suction and discharge.
- Alcoholic beverages wine, beer & spirits up to 75% alcohol content and 150 proof
- Milk tanker collection & unloading-ideal for reel applications
- Hot food-constant operations: liquid food up to 230° F (110° C), fat foods up to 248° F (120° C)
- Fat foods-perfect for animal fats and any vegetable oils
- Hose may be sterilized with 266° F (130° C) steam for 30 minutes or with 5% soda solution.

#### **Construction:**

**Tube:** White NBR rubber specially compounded to satisfy the highest food industry standards. Compliant to FDA and 3A standards. Phthalate free.

**Reinforcement:** High tensile textile cords with embedded steel helix wire.

**Cover:** Grey NBR/PVC abrasion, weather & ozone resistant.

#### Service Temperature Range:

Liquid foods: -22° F (-30° C) to +230° F (+110° C) Fat foods: -22° F (-30° C) to +248° F (+120° C)

#### **Branding:**

AG -ITALY- 400 EVOLUTION 10 bar (150 psi) MULTI FOOD S&D 110 °C (230°F) FDA 3-A (food symbol)

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T400LB125	1 1/4	32	1.69	43	150	30	2 1/2	100	0.68					
T400LB150	1 1/2	38	1.93	49	150	30	3	100	0.79					
T400LB200	2	51	2.48	63	150	30	4	100	1.07					
T400LB250	2 1/2	63	2.99	76	150	27	5	100	1.61					
T400LB300	3	76	3.50	89	150	27	6	100	1.94					
T400LB400	4	102	4.57	116	150	27	8	100	2.63					

CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36 OF THE ALFAGOMMA INDUSTRIAL RUBBER HOSE CATALOG.

#### **COUPLING SUGGESTIONS**

Quick-Acting or combination nipples attached with single bolt, double bolt, wire or band type clamps.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **FDA Liquid Food Transfer**

#### **ALFAGOMMA**

#### **T410LL Series**

240 PSI Food & Beverage S & D Hose – Crush Resistant

3-A



#### **General Applications:**

Food and alcoholic beverage suction and discharge. Specially designed for wine, beer and spirits, up to 190 proof or 95% alcohol content\*. Hose may be sterilized with steam at 226°F (+130°C) for 30 minutes or with 5% soda solution.

★ Not recommended for dry abrasive materials.

#### **Construction:**

Tube: White nontoxic CIIR. Meets FDA and 3A

(18-03) requirements.

Reinforcement: High tensile textile cords with

embedded PET helix.

Cover: White EPDM - abrasion and ozone

resistant.

#### **Working Pressure:**

Constant Pressure - 16 Bar (240 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +226°F (+108°C)

#### **Branding:**

ALFAGOMMA – ITALY T410 16 BAR (240 PSI) – FOOD SUCTION & DELIVERY – CRUSH RESISTANT (in black letters)

\*This correction is to rectify the relationship between the unit proof and % alcohol content in the U.S. system. The alcohol content  $\% = 0.5 \times 10^{-5} \times 10^{-5}$  roof. There are discrepancies between proof and % alcohol content as it differs from country to country. Calculations for the U.S. are shown here. EXAMPLE: Proof is a method of measuring the alcohol content of spirits. A spirits' product that has a 40% alcohol content by volume is 80 proof [40 multiplied by 2 = 80].

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T410LL100	1	25	1.46	37	240	30	4	100	0.60					
T410LL150	1 1/2	38	2.05	52	240	30	6	100	1.00					
T410LL200	2	51	2.56	65	240	30	8	100	1.29					
T410LL300	3	76	3.62	92	240	30	12	100	2.23					

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting couplings attached with bands.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



#### **ALFAGOMMA**

### **FDA Liquid Food Transfer**



#### **T410LB Series**

240 PSI Food & Beverage S & D Hose – Crush Resistant

3-A
COMPLIANT MATERIAL

#### **General Applications:**

Food and alcoholic beverage suction and discharge. Specially designed for wine, beer and spirits, up to 190 proof or 95% alcohol content\*. Hose may be sterilized with steam at 226°F (+130°C) for 30 minutes or with 5% soda solution.

★ Not recommended for dry abrasive materials.

#### **Construction:**

Tube: White nontoxic CIIR. Meets FDA and 3A

(18-03)requirements.

Reinforcement: High tensile textile cords with

embedded **PET** helix.

Cover: Gray EPDM - abrasion and ozone

resistant.

#### **Working Pressure:**

Constant Pressure - 16 Bar (240 PSI)

#### Service Temperature Range:

-22°F (-30°C) to +226°F (+108°C)

#### **Branding:**

ALFAGOMMA - ITALY T410 16 BAR (240 PSI) - FOOD SUCTION & DELIVERY - CRUSH RESISTANT (in black letters)

31

\*This correction is to rectify the relationship between the unit proof and % alcohol content in the U.S. system. The alcohol content % = 0.5 x Proof. There are discrepancies between proof and % alcohol content as it differs from country to country. Calculations for the U.S. are shown here. EXAMPLE: Proof is a method of measuring the alcohol content of spirits. A spirits' product that has a 40% alcohol content by volume is 80 proof [40 multiplied by 2 = 80].

<b>Nominal</b> 9	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T410LB100	1	25	1.46	37	240	30	5	100	0.60					
T410LB200	2	51	2.56	65	240	30	8	100	1.29					
T410LB300	3	76	3.62	92	240	30	12	100	2.23					

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting couplings attached with bands.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **FDA Liquid Food Transfer**

#### **ALFAGOMMA**



### T422LH Series Liquid S&D Brewery Hose



#### **General Applications:**

- Brewery suction and discharge.
- Liquid food and alcoholic beverage suction and discharge, up to 190 proof or 95% alcohol content\*.
- Versatile hose for applications requiring superb flexibility and light weight, while still maintaining high strength and durability.



\*This correction is to rectify the relationship between the unit proof and % alcohol content in the U.S. system. The alcohol content  $\% = 0.5 \times 10^{-5} \times 10^{-5}$  roof. There are discrepancies between proof and % alcohol content as it differs from country to country. Calculations for the U.S. are shown here. EXAMPLE: Proof is a method of measuring the alcohol content of spirits. A spirits' product that has a 40% alcohol content by volume is 80 proof [40 multiplied by 2 = 80].

#### **Construction:**

**Tube:** White Chlorobutyl meeting 3A (18-03) and FDA requirements.

**Reinforcement:** High tensile textile cords with specially designed embedded helix wires.

**Cover:** Red smooth NR/EPDM blend for abrasion and ozone resistance.

#### **Features and Advantages:**

- Extreme Flexibility Uniquely designed for maximum flexibility, bends easily around brewery equipment and works well in tight spaces.
- Lightweight Up to 25% lighter weight than similar rubber hoses, while still maintaining 150 PSI working pressure.

#### **Service Temperature Range:**

-22°F (-30°C) to +226°F (+108°C)

#### **Branding:**

ALFAGOMMA ITALY 422 10 bar (150 psi) BREWERY S&D (brewt logo) – extra flexible – FDA (white letters)

- High Heat Resistance Chlorobutyl tube capable of handling +226°F (+108°C) on a continuous basis. Allows for sterilization with +266°F (+130°C) steam for 30 minutes or with 5% soda solution.
- **High Purity Tube** Will not impart odor or taste.
- Smooth Cover Designed for easy cleaning, no gaps or crevices for dirt or bacteria to hide.
   Also provides a smooth surface for clamping.

	Nominal Specifications													
Series No.	ID		OD		Max. Rec. WP	Vacuum HG	Min. Bend Radius	Standard Length	Weight					
Sches No.	(in)	(mm)	(in)	(mm)	(psi)	(in)	at 68°F (in)	Coils (ft)	(lbs/ft)					
T422LH100	1	25	1.54	39	150	30	2	100	0.66					
T422LH125	1 1/4	32	1.81	46	150	30	2 1/2	100	0.81					
T422LH150	1 1/2	38	2.05	52	150	30	3	100	0.93					
T422LH200	2	51	2.56	65	150	30	4	100	1.21					
T422LH250	2 1/2	63	3.11	79	150	30	5	100	1.81					
T422LH300	3	76	3.62	92	150	27	6	100	2.30					
T422LH400	4	102	4.64	118	150	27	8	100	3.01					

CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.



#### **ALFAGOMMA**°

### **FDA Liquid Food Transfer**



# T426LB Series 150 PSI Grey Food S &D Hose CORRUGATED

3-A

#### **General Applications:**

Liquid, fatty, oily food and alcoholic beverage, max 150 proof and 75% alcohol content, suction and discharge.

Hose may be sterilized with 5% soda solution.

★ Not recommended for dry abrasive materials.

#### **Construction:**

**Tube:** White NBR. Meets FDA and 3A (18-03)

requirements.

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Gray NBR/PVC - abrasion, ozone and oil

resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T426 10 BAR (150 PSI) – GENERAL PURPOSE FOOD QUALITY – S & D (black letters)

33

<sup>\*</sup>This correction is to rectify the relationship between the unit proof and % alcohol content in the U.S. system. The alcohol content  $\% = 0.5 \times 10^{-5} \times 1$ 

ı	Nominal S	Spec	ificat	ions						
	Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)
	T426LB300	3	76	3.62	92	150	30	6	100	1.84
	T426LB400	4	102	4.65	118	150	30	8	100	2.69

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### FDA Liquid Food Transfer AALFAGOMME

# **T455LL Series**150 PSI Food Discharge Hose

3-A
COMPLIANT MATERIAL



#### **General Applications:**

Discharge of liquid, fatty, oily foods and alcoholic beverages, max 150 proof and 75% alcohol content.

Hose may be sterilized with 5% soda solution.

★ Not recommended for dry abrasive materials.

#### **Construction:**

Tube: White NBR. Meets FDA and 3A (18-03)

requirements.

**Reinforcement:** High tensile textile cords. **Cover:** White NBR/PVC blend – abrasion, ozone

and oil resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T455 10 BAR (150 PSI) – GENERAL PURPOSE FOOD TRANSFER (in black letters)

\*This correction is to rectify the relationship between the unit proof and % alcohol content in the U.S. system. The alcohol content  $\% = 0.5 \times 10^{-5} \times 10^{-5} \times 10^{-5}$  are shown here. EXAMPLE: Proof is a method of measuring the alcohol content of spirits. A spirits' product that has a 40% alcohol content by volume is 80 proof [40 multiplied by 2 = 80].

Nominal Specifications							
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T455LL150	1 1/2	38	1.89	48	150	100	0.60
T455LL200	2	51	2.48	63	150	100	0.95
T455LL300	3	76	3.46	88	150	100	1.38

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting couplings attached with bands.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **MALFAGOMME FDA Liquid Food Transfer**



#### **General Applications:**

Discharge of water used for drinking. Most often used for temporary water lines in construction and industrial applications.

#### **Construction:**

Tube: White NR. Meets FDA and 3A (18-03)

requirements.

**Reinforcement:** High tensile textile cords. **Cover:** Blue SBR/EPDM blend – abrasion and

ozone resistant.

#### **Working Pressure:**

Constant Pressure – 10 Bar (150 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T452 10 BAR POTABLE WATER HOSE (150 PSI) WP (in white letters)

Nominal Specifications							
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T452LE150	1 1/2	38	1.97	50	150	100	0.73
T452LE200	2	51	2.56	65	150	100	1.13
T452LE300	3	76	3.62	92	150	100	1.88
T452LE400	4	102	4.65	118	150	100	2.51

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting couplings attached with bands.



Kuriyama offers a full line of Quick-Acting couplings. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### FDA Liquid Compatibility Guide ALFAGOMME

The following data is based on tests and believed to be reliable; however, we emphasize that the tabulation should be used as a guide only, since it does not take into consideration all variables such as elevated temperatures, fluid contamination, concentration, etc. that may be encountered in actual use. All critical applications should be tested. Contact ALFAGOMMA for recommendation and assistance.

#### KEY TO FDA LIQUID MATERIAL COMPATIBILITY CHART

Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]:

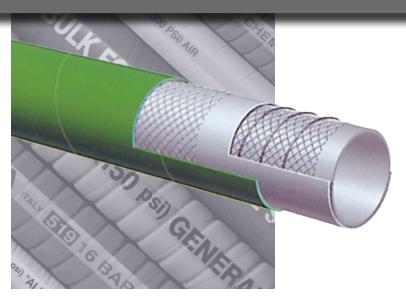
E – Excellent; G – Good; F – Fair; C – Conditional; I – Insufficient Data; X – Not Recommended; Blank – No Data

Alfagomma® hoses are produced using silicone free release agents.

FOOD	NATURAL RUBBER	CHLOROBUTYL	EPDM	NBR
BEER	F	G	E	E
BEET SUGAR, GRANULAR	E	Χ	G	Е
BUTTERMILK	Χ	F	G	Е
CANE SUGAR, GRANULAR	E	Χ	G	G
CASHEW NUT OIL	Χ	F	G	
CASTOR OIL	Χ	F	G	Е
CITRIC ACID	Е	Е	Е	Е
COCOA BUTTER	Χ	F	G	G
COCONUT OIL	Χ	F	G	Е
CORN OIL	X	F	G	Е
COTTONSEED OIL	Χ	F	G	Е
ETHANOL (GRAIN ALCOHOL)	F	G	E	E
FISH MEAL				
FLOUR	E	Χ	G	
GRAPE JUICE	F	G	E	G
LACTIC ACID	F	F	G	Е
LARD OIL	Χ	F	G	Е
LINSEED OIL	Χ	F	G	E
LIQUOR (SPIRITS)	F	G	E	G
MILK	E	E	E	E
MINERAL OIL	Χ	Χ	Χ	E
MOLASSES	E	E	E	Е
OLEIC ACID	Χ	F	G	F
OLIVE OIL	Χ	F	G	E
PALMITIC ACID	Χ	F	G	E
PARAFFINS	Χ	Χ	Χ	E
PEANUT OIL	Χ	F	G	Е
POTATO FLOUR	E	Χ	G	
SALT, GRANULAR	E	Χ	G	Е
SOYBEAN OIL	Χ	F	G	E
SUCROSE, GRANULATED	E	Χ	G	G
SUGAR, GRANULATED	E	Χ	G	F
SUGAR SYRUP	E	E	Е	F
TALLOW	Χ	Χ		E
TOMATO JUICE, PASTE & PUREE SAUCE	E	E	E	G
VEGETABLE OILS	Χ	F	G	E
VINEGAR	F	F	G	F
WATER, POTABLE	E	E	E	E
WHISKEY	F	G	E	E
WINES	F	G	E	E



# **BALFAGOMMA** FDA Dry Food Material Handling



# T720LG Series Bulk Food S & D Hose

#### **General Applications:**

Suction and discharge of wet or dry abrasive materials. Designed for grains, flour and pellet transfer.

#### **Construction:**

**Tube:** Natural white gum rubber 3/16" thick.

Meets FDA requirements.

**Reinforcement:** Spiraled high tensile textile cords with flexible steel helix wire and static wire. **Cover:** Green SBR/EPDM blend – abrasion and

ozone resistant.

#### **Working Pressure:**

Constant Pressure – 10 Bar (150 PSI) for 2", 3", 4" 5 Bar (75 PSI) for 5", 6", 8"

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T720 – BULK FOOD & MATERIAL – S & D (in white letters)

<b>Nominal</b> 9	Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)			
T720LG200	2	51	2.64	67	150	30	6	100	1.23			
T720LG300	3	76	3.62	92	150	27	9	100	1.91			
T720LG400	4	102	4.65	118	150	27	12	50/100	2.63			
T720LG500	5	127	5.71	145	75	24	20	20/50	3.81			
T720LG600	6	152	6.69	170	75	24	24	20/50	4.72			
T720LG800	8	203	8.78	223	75	21	32	20	7.01			

Please note: Proper grounding of static wire will prolong tube life.

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



# FDA Dry Food Material Handling



# T714LG Series Material Handling Hose FDA Grade CORRUGATED



#### **General Applications:**

For suction or discharge of wet or dry abrasive materials. Suitable for handling materials for human consumption.

#### Construction:

Tube: Natural white gum rubber 3/16" thick.

Meets FDA requirements.

**Reinforcement:** Spiraled high tensile textile cords with flexible steel helix wire and static wire. **Cover:** Green corrugated Nat/SBR blend rubber.

#### **Working Pressure:**

Constant Pressure - 5 Bar (75 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T714 – 5 Bar (75 PSI) – BULK FOOD & MATERIAL – S & D (in white letters)

Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)		
T714LG500	5	127	5.63	143	75	24	12.5	20/50	3.8		
T714LG600	6	152	6.85	174	75	24	24	20/50	4.75		
T714LG800	8	203	8.94	227	75	21	32	20	7.01		

rolong tube life.

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



# **ALFAGOMME** FDA Dry Food Material Handling



# **T760LE Series**75 PSI Dry Bulk Food Discharge Hose

#### **General Applications:**

Discharge or delivery of dry bulk food products.

#### **Construction:**

**Tube:** 3/16" white NR – abrasion resistant. Meets

FDA requirements.

Reinforcement: Spiraled high tensile textile

cords with static wire.

Cover: Blue SBR/EPDM - abrasion and ozone

resistant.

#### **Working Pressure:**

Constant Pressure - 5 Bar (75 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T760 5 BAR (75 PSI) – BULK FOOD & MATERIAL DELIVERY (in white letters)

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Nominal S	Nominal Specifications										
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)				
T760LE400	4	102	4.65	118	75	100	2.12				

★ Please note: Proper grounding of static wire will prolong tube life.

#### CONSULT FOOD HOSE GUIDE FOR MATERIAL COMPATIBILITY ON PAGE 36.

#### **COUPLING SUGGESTIONS**

Quick-Acting coupling attached with bands.



Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



# **Chemical**

## **BALFAGOMMA**

## T5050G Series

Acid - Chemical S & D **240 PSI - XLPE** 

#### Warning

Before using chemical hoses consult chemical resistance chart or consult factory.



#### **General Applications:**

Suction and transfer service for a variety of chemicals and solvents. Will handle 90% of existing chemicals. See Chemical Resistance Chart on pages 78 - 87.

#### **Construction:**

Tube: Transparent XLPE (cross-linked

polyethylene).

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Green EPDM - abrasion and ozone

resistant.

#### **Working Pressure:**

Constant Pressure - 16 Bar (240 PSI)

#### Service Temperature Range:

Normal recommended operating temperature is -22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY T505 16 BAR (240 PSI) -XLPE CHEMICAL – S & D (in orange letters)

IT IS ADVISABLE TO TEST THE TUBE MATERIAL UNDER ACTUAL SERVICE CONDITIONS PRIOR TO USE.

NOTE: FOR MAXIMUM SERVICE LIFE, WE RECOMMEND THAT T505 HOSE BE FLUSHED OUT AFTER EVERY USE.

Nominal	Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)				
T5050G075	3/4	19	1.22	31	240	27	7 1/2	100	0.46				
T5050G100	1	25	1.46	37	240	27	9	100	0.56				
T5050G150	1 1/2	38	1.97	50	240	27	13 1/4	100	0.76				
T5050G200	2	51	2.48	63	240	27	16 1/4	100	1.00				
T5050G300	3	76	3.62	92	240	24	20 3/4	100	1.83				
T5050G400	4	102	4.65	118	240	24	26 1/2	100	2.50				

#### **COUPLING SUGGESTIONS**

Quick-Acting and combination nipples, preferably stainless steel, attached with bands.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **ALFAGOMMA**

# **Chemical**



## **T5090E Series**

Acid - Chemical S & D 240 PSI - UHMWPE **Meets FDA Requirements** Suitable for use with DEF

#### Warning

Before using chemical hoses consult chemical resistance chart or consult factory.

#### **General Applications:**

Suction and transfer service for a variety of chemicals and acids. Will handle 98% of EXISTING CHEMICALS. See Chemical Resistance Chart on pages 78 – 87.

#### **Construction:**

Tube: Transparent UHMWPE (Ultra High

Molecular Weight Polyethylene).

Reinforcement: Synthetic textile cords with

flexible steel helix wire.

Cover: Blue EPDM - abrasion and ozone

resistant.

#### **Working Pressure:**

Constant Pressure - 16 Bar (240 PSI)

#### Service Temperature Range:

Normal recommended operating temperature is -22°F (-30°C) to +200°F (+93°C)

#### **Branding:**

ALFAGOMMA - ITALY T509 16 BAR (240 PSI) -UHMWPE CHEMICAL - S & D (in orange letters)

IT IS ADVISABLE TO TEST THE TUBE MATERIAL UNDER ACTUAL SERVICE CONDITIONS PRIOR TO USE.

NOTE: FOR MAXIMUM SERVICE LIFE, WE RECOMMEND THAT T509 HOSE BE FLUSHED OUT AFTER EVERY USE.

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<b>Nominal</b>	Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)			
T5090E075	3/4	19	1.22	31	240	27	7 1/2	100	0.41			
T5090E100	1	25	1.46	37	240	27	9	100	0.50			
T5090E125	1 1/4	32	1.73	44	240	27	10 1/4	100	0.60			
T5090E150	1 1/2	38	1.97	50	240	27	13 1/4	100	0.68			
T5090E200	2	51	2.48	63	240	27	16 1/4	100	0.91			
T5090E250	2 1/2	63	3.03	77	240	27	17 1/2	100	1.40			
T5090E300	3	76	3.62	92	240	24	20 3/4	100	1.91			
T5090E400	4	102	4.65	118	240	24	26 1/2	100	2.61			
T5090E600	6	152	6.77	172	240	24	40	100	5.28			

#### **COUPLING SUGGESTIONS**

Quick-Acting and combination nipples, preferably stainless steel, attached with bands.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



# **Chemical**

### **BALFAGOMMA**

## **T5190E Series**

Acid – Chemical S & D 240 PSI – UHMWPE – Corrugated Suitable for use with DEF

## CORRUGATED



#### **General Applications:**

Suction and transfer service for a variety of chemicals and acids. Will handle 98% of EXISTING CHEMICALS. See Chemical Resistance Chart on pages 78 – 87.

#### **Construction:**

Tube: Transparent UHMWPE (Ultra High

Molecular Weight Polyethylene).

Reinforcement: Synthetic textile cords with

flexible steel helix wire.

Cover: Blue EPDM - abrasion and ozone

resistant.

#### **Service Temperature Range:**

Normal recommended operating temperature is -22°F (-30°C) to +200°F (+93°C)

#### **Branding:**

ALFAGOMMA - ITALY T519 16 BAR (240 PSI) - UHMWPE CHEMICAL - S & D (in orange letters)

IT IS ADVISABLE TO TEST THE TUBE MATERIAL UNDER ACTUAL SERVICE CONDITIONS PRIOR TO USE.

NOTE: FOR MAXIMUM SERVICE LIFE, WE RECOMMEND THAT T509
HOSE BE FLUSHED OUT AFTER EVERY USE.

Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)		
T5190E200	2	51	2.48	63	240	27	6	100	94		
T5190E300	3	76	3.54	90	240	27	9	100	169		
T5190E400	4	102	4.57	116	240	27	12	100	275		

#### COUPLING SUGGESTIONS

Quick-Acting and combination nipples, preferably stainless steel, attached with bands.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.









### **ALFACOMMA**

**T600AA Series** 

Hard Wall Marine Exhaust Hose USCG/SAE J1527 A2/B2



#### **General Applications:**

Fuel, oil and hydraulic fluids suction and discharge. Suitable for exhaust gas from water cooled stationary or marine diesel engines. Offers maximum flexibility.

#### Construction:

**Tube:** Black NBR – exhaust gas, fuel and fire resistant.

**Reinforcement:** High tensile textile cords with flexible steel helix wire.

Cover: Black NBR/PVC blend - abrasion, ozone,

hydrocarbon and fire resistant.

#### **Working Pressure:**

Constant Pressure – 2 Bar (30 PSI)

#### Service Temperature Range:

-4°F (-20°C) to +212°F (+100°C)

#### **Branding:**

ALFAGOMMA – ITALY T600 MARINE EXHAUST/ FUEL S & D – <SIZE> – USCG/SAE J1527 TYPE A2 (in red letters)

Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)			
T600AA062	5/8	16	1.02	26	30	30	2	25/50	0.36			
T600AA075	3/4	19	1.14	29	30	30	2 1/4	25/50	0.44			
T600AA087	7/8	22	1.26	32	30	30	2 3/4	25/50	0.50			
T600AA100	1	25	1.38	35	30	30	3	25/50	0.56			
T600AA112	1 1/8	28	1.50	38	30	30	3 1/4	25/50	0.60			
T600AA125	1 1/4	32	1.65	42	30	30	3 3/4	25/50	0.65			
T600AA137	1 3/8	35	1.77	45	30	30	4 1/4	25/50	0.70			
T600AA150	1 1/2	38	1.89	48	30	30	4 1/2	25/50	0.76			
T600AA162	1 5/8	42	2.17	52	30	30	5	25/50	0.81			
T600AA175	1 3/4	45	2.16	55	30	30	5 1/4	25/50	0.87			
T600AA189	1 7/8	48	2.28	58	30	30	5 3/4	25/50	0.91			
T600AA200	2	51	2.40	61	30	30	6	25/50	0.99			
T600AA225	2 1/4	57	2.64	67	30	30	6 3/4	25/50	1.09			
T600AA238	2 3/8	60	2.76	70	30	27	7	25/50	1.25			
T600AA250	2 1/2	63	2.87	73	30	27	7 1/2	25/50	1.31			

continued



# 

# **Petroleum**



T600AA Series (continued)
Hard Wall Marine Exhaust Hose
USCG/SAE J1527 A2/B2

Nominal	Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)				
T600AA275	2 3/4	70	3.11	80	30	27	8 1/4	25/50	1.41				
T600AA300	3	76	3.39	86	30	27	9	25/50	1.53				
T600AA350	3 1/2	90	3.94	100	30	27	10 1/2	25/50	1.91				
T600AA400	4	102	4.41	112	30	27	12	25/50	2.12				
T600AA450	4 1/2	115	5.00	127	30	27	13 1/2	25/50	2.72				
T600AA500	5	127	5.55	141	30	24	15	25/50	3.04				

### **BALFACOMMA**

**T653AA Series** 

Soft Wall Marine Exhaust Hose SAE J2006 R1



#### **General Applications:**

Marine wet exhaust and bilge pump connections.

#### **Construction:**

Tube: Black Synthetic Rubber.

Reinforcement: High tensile textile cords.

Cover: Black Synthetic Rubber - abrasion, ozone

and hydrocarbon resistant.

#### **Working Pressure:**

Constant Pressure - 5 Bar (75 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +212°F (+100°C)

#### **Branding:**

ALFAGOMMA - ITALY - T653 SOFT WALL MARINE WET EXHAUST SAE J2006 R1 <SIZE> <YYYY MFG> (in blue letters)

<b>Nominal</b>	Specific	cations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T653AA100	1	25	1.38	35	75	12.5	0.43
T653AA112	1 1/8	28	1.50	38	75	12.5	0.47
T653AA125	1 1/4	32	1.65	42	75	12.5	0.52
T653AA137	1 3/8	35	1.77	45	75	12.5	0.56
T653AA150	1 1/2	38	1.89	48	75	12.5	0.61
T653AA162	1 5/8	42	2.05	52	75	12.5	0.66
T653AA175	1 3/4	45	2.17	55	75	12.5	0.70
T653AA189	1 7/8	48	2.28	58	75	12.5	0.75
T653AA200	2	51	2.48	63	75	12.5	0.97
T653AA225	2 1/4	57	2.72	69	75	12.5	1.07
T653AA238	2 3/8	60	2.91	74	75	12.5	1.31
T653AA250	2 1/2	63	3.03	77	75	12.5	1.37
T653AA300	3	76	3.54	90	75	12.5	1.64
T653AA350	3 1/2	90	4.09	104	75	12.5	1.95
T653AA400	4	102	4.57	116	75	12.5	2.18

continued



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# **Petroleum**



Nominal S	Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)					
T653AA450	4 1/2	115	5.08	129	75	12.5	2.43					
T653AA500	5	127	5.55	141	75	12.5	2.68					
T653AA600	6	152	6.61	168	75	12.5	3.26					
T653AA662	6 5/8	168	7.24	184	75	12.5	3.57					
T653AA800	8	203	8.70	221	75	12.5	4.96					

### **ALFACOMMA**

**T6D1AA Series** 

400 PSI Oil Rigger / Frack Discharge Hose



#### **General Applications:**

Fracking fluids, liquid mud and crude oil delivery in oil field and gas exploration.

#### Construction

Tube: Black synthetic elastomer.

**Reinforcement:** High tensile textile cords. **Cover:** Black synthetic elastomer – abrasion, oil

and ozone resistant.

#### **Working Pressure:**

Constant Pressure – 27 Bar (400 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY OIL RIGGER – FRACK 27

BAR (400 PSI) (in blue letters)

Nominal S	Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)					
T6D1AA400	4	102	4.72	120	400	100	2.89					

#### **COUPLING SUGGESTIONS**

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.





### ALFACOMINE"

# **Petroleum**



**ST6D2AA Series**400 PSI Oil Rigger/Frack
Discharge Hose with
SUPERTUFF Cover

#### **General Applications:**

Fracking fluids, liquid mud and crude oil delivery in heavy duty oil field and gas exploration.

#### **Construction:**

Tube: Black synthetic elastomer.

**Reinforcement:** High tensile textile cords. **Cover:** Black SUPERTUFF cover – abrasion, oil

and ozone resistant.

#### **Working Pressure:**

Constant Pressure - 27 Bar (400 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY OIL RIGGER - FRACK 27

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BAR (400 PSI) (in blue letters)

<b>Nominal</b>	Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)						
ST6D2AA400	4	102	4.72	120	400	100	2.93						

#### **COUPLING SUGGESTIONS**

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### ALFACOMMA<sup>®</sup>

### CT601AA Series

150 PSI Corrugated Oil Rigger/Oil Field-Frack Tank Hose

### CORRUGATED



#### **General Applications:**

Oil field vacuum tank service, for handling crude oil, frack solutions and slurries.

Note: For applications up to 35% aromatics. Not for use with refined petroleum products.

#### **Construction:**

Tube: Black Nitrile - PVC blend, limited oil

resistance, for oil field use.

**Reinforcement:** High tensile textile cords with

flexible steel helix wire.

Cover: Black corrugated SBR - abrasion, ozone,

limited oil resistance.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T6C1 10 BAR (150 PSI) OIL FIELD-FRACK TANK S & D (in blue letters)

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
CT601AA200	2	51	2.40	61	150	30	6	100	0.86					
CT601AA300	3	76	3.46	88	150	27	9	100	1.61					
CT601AA400	4	102	4.49	114	150	27	12	100	2.39					

#### **COUPLING SUGGESTIONS**

Quick-Acting couplings or combination nipples attached with bands.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **ALFACOMMA**

# **Petroleum**



# T601AA Series 150 PSI Oil Rigger/Oil FieldFrack Tank Hose

#### **General Applications:**

Oil field vacuum tank service, for handling crude oil, frack solutions and slurries.

Note: For applications up to 35% aromatics. Not for use with refined petroleum products.

#### **Construction:**

Tube: Black Nitrile - PVC blend, limited oil

resistance, for oil field use.

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Black SBR - abrasion, ozone, limited oil

resistance.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T601 10 BAR (150 PSI) OIL FIELD-FRACK TANK HOSE (in blue letters)

<b>Nominal</b> S	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T601AA200	2	51	2.40	61	150	30	10	100	0.93					
T601AA300	3	76	3.46	88	150	27	15	100	1.73					
T601AA400	4	102	4.57	116	150	27	20	100	2.40					
T601AA600	6	152	6.61	168	150	24	30	20/100	4.59					

#### **COUPLING SUGGESTIONS**

Quick-Acting couplings or combination nipples attached with bands.



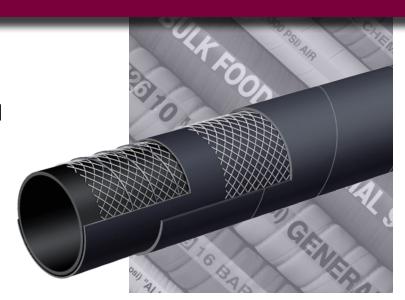
Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### ALFACOMMA<sup>®</sup>

# **T604AA Series**

Flexor – SAE 100 R4 Oil Return Hose



#### **General Applications:**

Low pressure return lines or suction lines with half the bend radius requirements of SAE J517 100 R4, service with petroleum based hydraulic fluids, water-glycol and water-fire resistant hydraulic fluids, oil, lubricants, crude oil, fuel oils and water.

#### **Construction:**

Tube: Black conductive NBR.

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Black CR - oil, fuel, weather, ozone and

abrasion-resistant.

#### **Working Pressure:**

Constant Pressure – 20 Bar (300 PSI) 3/4" 17 Bar (250 PSI) 1" 14 Bar (200 PSI) 1 1/4" 10 Bar (150 PSI) 1 1/2" 7 Bar (100 PSI) 2"

#### **Service Temperature Range:**

-40° F (-40° C) to +212° F (+100° C) constant operation

Maximum operating temperature: +257° F (+125° C). Air maximum temperature: 175° F (80° C).

**Note:** Operating temperatures in excess of 212° F (+100° C) may materially reduce the life of the hose.

#### **Branding:**

ALFAGOMMA – ITALY – T604 (PSI) – SAE 100 R4 – (SIZE) – Date (in white letters)

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T604AA075	3/4	19	1.14	29	300	30	2 1/4	100	0.41					
T604AA100	1	25	1.38	35	250	30	3	100	0.52					
T604AA125	1 1/4	32	1.65	42	200	30	3 3/4	100	0.61					
T604AA150	1 1/2	38	1.89	48	150	30	4 1/2	100	0.70					
T604AA200	2	51	2.40	61	100	30	6	100	0.90					

#### **COUPLING SUGGESTIONS**

Crimp-on permanent type or combination nipples with bands.

Note: Hose cover does not need to be removed before attaching couplings.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing our products, we reserve the right to alter specifications or discontinue products without prior notice.



### ALFACOMMA<sup>®</sup>

# **Petroleum**



## **T605AA Evolution Series** 150 PSI Black Petroleum S & D Hose

#### **General Applications:**

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to 50% aromatic content. Also suitable for marine wet exhaust and bilge pump connections.

#### Construction:

Tube: Black conductive NBR.

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Black CR - abrasion, ozone and

hydrocarbon resistant.

NOTE: Exceeds SAE100R4

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY 605 EVOLUTION- 10 BAR (150 PSI) PETROLEUM – S & D  $\Omega$  - SAE 100R4 (in red letters)

T605 IS NOT RECOMMENDED FOR USE ON A REEL

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<b>Nominal</b>	Spec	cificat	tions						
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)
T605AA075	3/4	19	1.18	30	150	30	1.5	100	0.40
T605AA100	1	25	1.42	36	150	30	2	100	0.50
T605AA125	1 1/4	32	1.69	43	150	30	2.5	100	0.60
T605AA150	1 1/2	38	1.93	49	150	30	3	100	0.70
T605AA200	2	51	2.44	62	150	30	4	100	0.91
T605AA250	2 1/2	63	2.99	76	150	30	7.5	100	1.40
T605AA300	3	76	3.50	89	150	30	9	100	1.59
T605AA400	4	102	4.57	116	150	30	12	100	2.29
T605AA600	6	152	6.69	170	150	25	24	20/100	4.86
T605AA800	8	203	8.86	225	150	25	32	20	7.74

#### **COUPLING SUGGESTIONS**

Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### ALFACOMMA<sup>®</sup>

**6C5AA Series** 150 PSI Corrugated **Tank Truck Hose** 

### **CORRUGATED**



#### **General Applications:**

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to 50% aromatic content.

#### **Construction:**

Tube: Black Conductive NBR.

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Black corrugated CR - abrasion, ozone,

and hydrocarbon resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY T6C5 10 BAR (150 PSI) PETROLEUM TANK TRUCK (in red letters)

Nominal S	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
6C5AA200	2	51	2.48	63	150	30	4	100	0.85					
6C5AA300	3	76	3.44	90	150	27	6	100	1.57					
6C5AA400	4	102	4.57	116	150	27	8	100	2.21					
6C5AA600	6	152	6.54	166	150	27	12	20	3.59					

#### **COUPLING SUGGESTIONS**

Quick-Acting couplings or combination nipples attached with bands.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



## **ZALFACOMMA**

# **Petroleum**



# **T605AH Series**150 PSI Red Petroleum S & D Hose

#### **General Applications:**

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to 50% aromatic content.

#### **Construction:**

Tube: Black conductive NBR.

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Red CR - abrasion, ozone and

hydrocarbon resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T605 – 10 BAR (150 PSI) PETROLEUM – S & D (in yellow letters)

T605 IS NOT RECOMMENDED FOR USE ON A REEL.

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T605AH150	1 1/2	38	1.89	48	150	30	6	100	0.73					
T605AH200	2	51	2.40	61	150	30	8	100	0.94					
T605AH300	3	76	3.46	88	150	27	12	100	1.74					
T605AH400	4	102	4.57	116	150	27	16	100	2.41					

#### **COUPLING SUGGESTIONS**

Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.



Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **BALFACOMMA**

## **T606AE Series**

150 PSI Corrugated Petroleum S & D – Arctic Hose

## CORRUGATED



#### **General Applications:**

For suction and discharge applications in truck and tank car transfer of gasoline, oil and other petroleum-based products with up to 50% aromatic content. Where extreme flexibility is needed in low temperature.

#### **Construction:**

Tube: Black conductive NBR.

Reinforcement: High tensile textile cords with

flexible steel helix wire.

Cover: Blue corrugated - abrasion, ozone and

hydrocarbon resistant.

#### **Working Pressure:**

Constant Pressure - 150 PSI

#### Service Temperature Range:

-65°F (-54°C) to +180°F (+82°C)

#### **Branding:**

ALFAGOMMA – ITALY T606 – 10 BAR (150 PSI) PETROLEUM – S & D Arctic (in blue letters on

yellow layline)

<b>Nominal</b> 9	Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)				
T606AE200	2	51	2.48	63	150	30	3	100	1.06				
T606AE300	3	76	3.54	90	150	30	4 1/2	100	1.84				
T606AE400	4	102	4.57	116	150	30	6	100	2.67				

#### COUPLING SUGGESTIONS

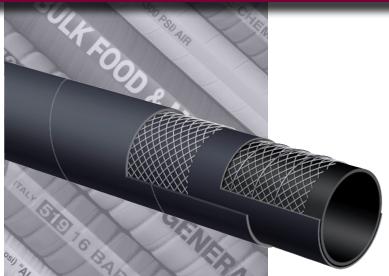
Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **ALFACOMMA**

# **Petroleum**



**T620AA Series** 300 PSI Black Fuel & Oil S & D Hose

#### **General Applications:**

Fuel and oil suction and discharge for up to 50% aromatic content. Designed for heavy duty applications.

#### **Construction:**

Tube: Black conductive NBR.

Reinforcement: High tensile textile cords with

steel helix wire and static wire.

Cover: Black conductive CR - abrasion, ozone

and hydrocarbon resistant.

#### **Working Pressure:**

Constant Pressure - 20 Bar (300 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY T620 - 20 BAR (300 PSI) PETROLEUM – S & D  $\Omega$  (in red letters)

Nominal	Nominal Specifications												
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)				
T620AA200	2	51	2.48	63	300	30	8	100	1.10				
T620AA300	3	76	3.54	90	300	27	12	100	1.77				
T620AA400	4	102	4.57	116	300	27	16	100	2.43				
T620AA600	6	152	6.69	170	300	24	24	20/100	5.60				
T620AA800	8	203	8.86	225	300	21	32	20	9.24				

#### **COUPLING SUGGESTIONS**

Quick-Acting, combination nipples attached with bands or internally expanded brass couplings with gasket seal attached with ferrules.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### ALFACOMMA!

# **T629AA Series**150 PSI Black Biofuel Petroleum S & D Hose





#### **General Applications:**

For suction and discharge applications in truck and tank car transfer of gasoline, oil and Biofuels – up to E98 and B100\* with up to 60% aromatic content at ambient temperature.

#### **Construction:**

**Tube:** Black conductive synthetic rubber. **Reinforcement:** High tensile textile cords with steel helix wire.

**Cover:** Black specially-blended neoprene – added resistance against abrasion, ozone and hydrocarbons.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

### **Service Temperature Range:**

-22°F (-30°C) to 176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T629 – 10 BAR (150 PSI) BIOFUEL  $\Omega$  (in green letters)

★ T629 is not recommended for use on a reel.

\*Applies to Biodiesels which meet the ASTM D6751 criteria.

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)					
T629AA075	3/4	19	1.14	29	150	30	3	100	0.41					
T629AA100	1	25	1.38	35	150	30	4	100	0.51					
T629AA150	1 1/2	38	1.89	48	150	30	6	100	0.71					
T629AA200	2	51	2.40	61	150	30	8	100	0.91					
T629AA250	2 1/2	63	2.95	75	150	27	10	100	1.42					
T629AA300	3	76	3.46	88	150	27	12	100	1.71					
T629AA400	4	102	4.57	116	150	27	16	100	2.38					

#### **COUPLING SUGGESTIONS**

Quick-Acting or combination nipples attached with bands.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **BALFACOMMA**

# Petroleum



#### **General Applications:**

Oil discharge hose designed for use on trucks, docks or barges where a soft wall hose is required.

#### **Constructions:**

Tube: Black conductive NBR.

Reinforcement: Spiraled high tensile textile

cords with embedded static wire. **Cover:** Red CR – abrasion, ozone and

hydrocarbon resistant.

#### **Working Pressure:**

Constant Pressure - 10 Bar (150 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T650 10 BAR (150 PSI) – PETROLEUM DELIVERY (in yellow letters)

Nominal S	Nominal Specifications													
Series	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)							
T650AH150	1 1/2	38	1.97	50	150	100	0.77							
T650AH200	2	51	2.40	61	150	100	0.82							
T650AH300	3	76	3.46	88	150	100	1.42							
T650AH400	4	102	4.49	114	150	100	1.92							

#### **COUPLING SUGGESTIONS**

Quick-Acting or combination nipples attached with bands.



Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



## **ALFACOMMA**

T614AA Series
150 PSI Hot Tar & Asphalt
S & D Hose



#### **General Applications:**

Hot tar and asphalt suction and discharge service.

#### **Construction:**

**Tube:** Black NBR – hot tar and asphalt resistant. **Reinforcement:** High tensile textile cords with steel helix wire.

Cover: Black CSM - abrasion, ozone and hot tar

resistant.

#### **Working Pressure:**

10 Bar (150 PSI)

#### **Service Temperature Range:**

-4°F (-20°C) to +356°F (+180°C)

#### **Branding:**

ALFAGOMMA – ITALY T614 10 BAR (150 PSI) HOT TAR AND ASPHALT (on red stripe)

Nominal	Nominal Specifications													
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Wall Thickness (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)				
T614AA200	2	51	2.72	69	9	150	30	10	100	1.64				
T614AA300	3	76	3.78	96	10	150	27	15	100	2.69				
T614AA400	4	102	4.80	122	10	150	27	20	100	3.57				

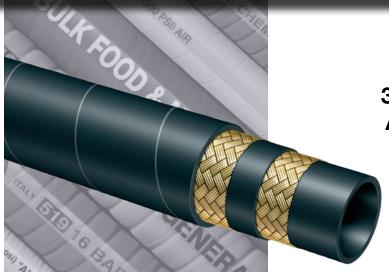
#### **COUPLING SUGGESTIONS**

Permanently attached couplings are suggested for assemblies.



### **BALFACOMMA**

# **Petroleum**



**T631AA Series**300 PSI Hot Tar & Asphalt
Applicator Delivery Hose

#### **General Applications:**

Hot tar and asphalt delivery service.

#### **Construction:**

**Tube:** Black NBR – hot tar and asphalt resistant. **Reinforcement:** High tensile steel wire braids. **Cover:** Black CR – abrasion, ozone, hydrocarbon and fire registent.

and fire resistant.

#### **Working Pressure:**

20 Bar (300 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +356°F (+180°C)

#### **Branding:**

ALFAGOMMA – ITALY T631 20 BAR (300 PSI) HOT TAR AND ASPHALT (embossed)

#### **Safety Factor:**

10:1

Nomin	Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Wall Thickness (mm)	Max Rec. WP (psi)	Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)			
T631AA075	3/4	19	1.26	32	6	300	3	50/100	0.50			
T631AA100	1	25	1.50	38	6	300	3	50/100	0.77			

#### **COUPLING SUGGESTIONS**

Permanently attached couplings are suggested for assemblies.



## **ALFACOMMA**

# T631AE Series 300 PSI Hydrocarbon Drain Hose



#### **General Applications:**

Drain hose for residue from cleaning storage tanks and refining hydrocarbons.

#### **Construction:**

**Tube:** Black NBR-hydrocarbon resistant. **Reinforcement:** High tensile steel wire braids. **Cover:** Blue CR – abrasion and hydrocarbon resistant.

#### **Working Pressure:**

20Bar (300 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +356°F (+180°C)

#### **Branding:**

ALFAGOMMA-HYDROCARBON DRAIN HOSE-300PSI

Nominal	Nominal Specifications										
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Wall Thickness (mm)		Min. Bending Radius (in)				
T631AE075	3/4	19	1.26	32	6	300	3	100	0.50		

### **ALFAGOMMA**

# **Material Handling**



#### Service Temperature Range:

-40°F (-40°C) to +212°F (+100°C)

#### **Branding:**

ALFAGOMMA ITALY 10 bar (150 psi) HEAVY DUTY INDUSTRIAL VACUUM S&D

#### **Features and Advantages:**

**Abrasion Resistant Tube** – 1/4" gum rubber tube designed for wet or dry applications where severe abrasion is a factor. Provides for long hose service life.

**Heavy Duty Construction** – Thick tube and cover, high tensile strength fabric and durable steel helix wire designed for high pressure and vacuum application. All sizes rated to full vacuum, and PSI safety factor 3:1 (2"-8") and 2.5:1 (10").

**Grounding Wire** – Steel wire helps prevent the build-up of static electricity and to help keep material flowing smoothly.<sup>†</sup>

**Corrugated Outer Cover** – Provides increased hose flexibility.

"Cold-Flex" Materials - Hose remains flexible in sub-zero temperatures.

**Cuffed Ends Available** – Available with soft cuffed ends for easy installation and clamping.

# THE BOOMER

# T704HA Series CORRUGATED Industrial Sewer Vacuum Hose

#### **General Applications:**

- Material handling suction/discharge.
- Industrial vacuum equipment applications.
- Great hose for dry or wet abrasive materials.
- Popular hose for vacuum truck industry where a rugged and durable hose product is needed.
- Drill cutting suction hose in mobile drilling rigs.

#### **Construction:**

- **Tube** 1/4" thick red gum rubber tube for abrasion-resistance.
- Reinforcement High tensile textile fabric with embedded steel helical wire.
- Cover Corrugated black conductive SBR/NR blend cover for abrasion and ozone-resistance.

Nominal	Spe	cifica	tions						
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bend Radius (in at 68°F)	Standard Length Coils (ft)	Weight (lbs/ft)
T704HA200	2	51	2.87	69	150	30	6	100	1.41
T704HA300	3	76	3.69	96	150	30	9	100	2.40
T704HA400	4	102	5.03	122	150	30	12	100	3.39
T704HA500	5	127	6.22	149	150	30	15	100	4.31
T704HA600	6	152	7.04	174	150	30	24	100/50	5.13
T704HA800	8	203	9.00	227	150	30	32	100/50/35	9.26
T704HA1000	10	254	11.22	283	150	30	40	35	13.82

<sup>†</sup> Caution: This product is desgined to help dissipate static electricity when the metal wire is properly connected to ground, through the fitting or other means.

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings<sup>™</sup> and Accessories Catalog for type and pricing.



# **Material Handling**

### **ALFAGOMMA**°

### **T755AA**

Formerly LT753AA

180 PSI 2-Ply Abrasive
Material Blast Hose



#### **General Applications:**

Designed to convey abrasives, sand and shot blast material.

#### **Construction:**

**Tube:** Black static conducting NR – offering excellent abrasion resistance, upgraded to

36mm<sup>3</sup> (cubed) rating.

**Reinforcement:** High tensile textile cords – 2-ply

construction.

**Cover:** Black conductive SBR/NR blend – abrasion and ozone resistant – pin pricked.

#### **Working Pressure:**

Constant Pressure - 12 Bar (180 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY - 755 12 BAR (180 PSI) TOP ABRASIVE MATERIAL BLAST  $\Omega$  (in white letters)

#### Standard Length:

50 or 100 feet

<b>Nominal</b> 9	Nominal Specifications									
Series	ID (in)	ID (mm)	OD (in)	OD (mm)	Tube Thickness (mm)	Max Rec. WP (psi)	Weight (lbs/ft)			
T755AA050	1/2	13	1.06	27	0.212	180	0.34			
T755AA125	1 1/4	32	1.89	48	0.240	180	0.77			

NOTE: Tolerances according to RMA Class 311-A

#### **Blasting Data Guide**

Premature hose wear can be prevented if the proper nozzle size is used for the corresponding hose ID size. (See chart below)

Blasting Data	Blasting Data Guide										
Series	UB8	UB7	UB6	UB5	UB4						
NOZZLE SIZE	1/2	7/16	3/8	5/16	1/4						
CFM @ 100 PSI	350	260	200	150	90						
AIR HOSE	2	1 1/2	1 1/2	1 1/4	1 1/4						
S.B. HOSE SIZE	1 1/2	1 1/2	1 1/4	1 1/4	1						
MAT. LB/HR	2250	1750	1260	900	540						



### **ALFAGOMMA**

# **Material Handling**



## T753AA / T753AG

Formerly T750AA/T750AG 180 PSI 4-Ply Abrasive **Material Blast Hose** 

**T753AA Black Cover** 

**T753AG Green Cover** 

#### **General Applications:**

Designed to convey abrasives, sand and shot blast material.

#### **Construction:**

**Tube:** Black static conducting natural rubber – offering excellent abrasion resistance, upgraded to 50mm<sup>3</sup> (cubed) rating.

Reinforcement: High tensile textile cords – 4-ply construction.

Cover: Black or green, conductive SBR/NR blend - abrasion and ozone resistant - pin pricked.

#### Working Pressure:

Constant Pressure - 12 Bar (180 PSI)

#### Service Temperature Range: -22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY - 753 12 BAR (180 PSI) PREMIUM ABRASIVE MATERIAL BLAST  $\Omega$  (in white letters)

65

Nominal S	Specif	icatio	ns					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Tube Thickness (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T753AA/AG075	3/4	19	1.50	38	0.236	180	50/100	0.68
T753AA/AG100	1	25	1.89	48	0.283	180	50/100	1.04
T753AA/AG125	1 1/4	32	2.17	55	0.283	180	50/100	1.23
T753AA/AG150	1 1/2	38	2.36	60	0.260	180	50/100	1.40
T753AA200	2	51	2.87	73	0.260	180	50/100	1.77

NOTE: Tolerances according to RMA Class 311-A

HOSE ID (in)	HOSE ENDS	NOZZLE HOLDERS	THREADED FEMALE ADAPTER	GASKETS
3/4	Q-AL1, Q-BR1, Q-PI1	NH-AL1, NH-BR1	-	SBG
1	Q-AL2, Q-BR2, Q-PI2	NH-AL2, NH-BR2	-	SBG
1 1/4	Q-AL3, Q-BR3, Q-PI3	NH-AL3, NH-BR3	SB-AL1, SB-BR1	SBG
1 1/2	Q-AL4, Q-BR4, Q-PI4	NH-AL4, NH-BR4	SB-AL2, SB-BR2	SBG

#### **COUPLING SUGGESTIONS**

Sandblast couplings and nozzle holders attached with screws. See next column for coupling part numbers.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



Kuriyama offers a full line of sandblast couplings. Refer to current Kuriyama-Couplings™ and Accessories Catalog.

# **Material Handling**

### **ALFAGOMMA**°

# **T720AA Series**Bulk Material S & D Hose



#### **General Applications:**

Suction and discharge of wet or dry abrasive materials. Designed for grains and dry cement.

#### **Construction:**

**Tube:** 3/16" black conductive NR – abrasion resistant.

Reinforcement: Spiraled high tensile textile

cords with flexible steel helix wire.

Cover: Black conductive SBR/NR blend -

abrasion and ozone resistant.

#### **Working Pressure:**

Constant Pressure – 10 Bar (150 PSI) for 2", 3", 4" 5 Bar (75 PSI) for 5", 6", 8"

#### Service Temperature Range:

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T720 – BULK MATERIAL – S & D (in white letters)

Nominal	Spec	ificat	ions						
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Vacuum HG (in)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)
T720AA200	2	51	2.56	65	150	30	6	100	0.97
T720AA300	3	76	3.54	90	150	27	9	100	1.54
T720AA400	4	102	4.57	116	150	27	12	50/100	2.15
T720AA500	5	127	5.63	143	75	24	20	20/50	3.20
T720AA600	6	152	6.61	168	75	24	24	20/50	4.01
T720AA800	8	203	8.70	221	75	21	32	20	6.05

#### **COUPLING SUGGESTIONS**

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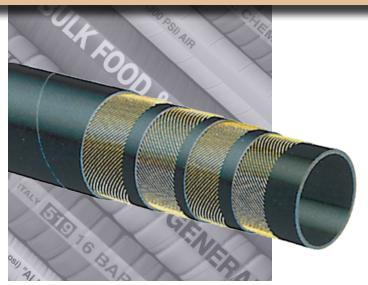
Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **ALFAGOMMA**

# **Material Handling**



## **T740AA Series**

1275 PSI High Performance Steel - Reinforced Concrete Pumping Hose

#### **General Applications:**

Steel-reinforced concrete pumping hose – Special easy-handling construction for concrete placement at casting site.

#### **Construction:**

**Tube:** Black conductive NR – abrasion resistant. **Reinforcement:** High tensile steel cords. **Cover:** Black conductive SBR/NR blend –

abrasion and ozone resistant.

#### **Working Pressure:**

Working Pressure – 85 Bar (1275 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T740 85 BAR (1275 PSI) W. P. HEAVY DUTY CONCRETE PUMPING (in white letters)

Nominal	Spec	ificat	ions						
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Wall Thickness (mm)	Max Rec. WP (psi)	Min. Bending Radius (in)	Standard Length (ft)	Weight (lbs/ft)
T740AA200	2	51	2.72	69	9	1275	10	50/100	1.44
T740AA250	2 1/2	63	3.35	85	11	1275	10 1/2	50/100	2.25
T740AA300	3	76	3.94	100	12	1275	15	50/100	3.06
T740AA400	4	102	5.04	128	13	1275	20	50/100	4.72
T740AA500	5	127	6.10	155	14	1275	25	50	6.95

#### **COUPLING SUGGESTIONS**

Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.



# **Material Handling**

### **ALFAGOMMA**

T757AA Series / **T737AA Series** 

600 PSI Plaster & **Concrete Hose** (Series T737AA for 3" ID)



#### **General Applications:**

Designed for pumping plaster, grout, and wet cement to placement sites.

#### **Construction:**

**Tube:** Black conductive NR – abrasion resistant. Reinforcement: High tensile textile cords. Cover: Black conductive SBR/NR - abrasion and

ozone resistant.

#### **Working Pressure:**

Constant Pressure - 40 Bar (600 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY T757 - 40 BAR (600 PSI) PLASTER & CONCRETE (in white letters) and ALFAGOMMA - ITALY T737 - 40 BAR (600 PSI) PLASTER & CONCRETE (in white letters)

Nominal S	Specific	cations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T757AA150	1 1/2	38	2.13	54	600	100	0.82
T757AA200	2	51	2.64	67	600	100	1.09
T737AA300	3	76	4.09	104	600	100	2.96

#### **COUPLING SUGGESTIONS**

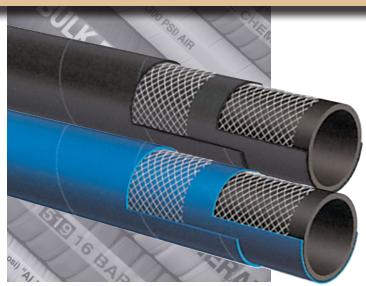
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Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.



### **ALFAGOMMA**

# **Material Handling**



## **T758AA / T758AE**

800 PSI Plaster, Grout & Concrete Hose

T758AA Black Cover

T758AE Blue Cover

#### **General Applications:**

Designed for pumping plaster, grout, wet cement to construction placement sites at rated pressures.

#### **Construction:**

**Tube:** Black conductive NR – abrasion-resistant. **Reinforcement:** Spiraled high tensile textile

cords.

Cover: Black SBR/NR. Blue SBR/EPDM.

#### **Working Pressure:**

Constant Pressure - 55 Bar (800 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T758 – 55 BAR (800 PSI) PLASTER & CONCRETE (in white letters)

Nominal S	Specific	cations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T758AA/AE100	1	25	1.57	40	800	100	0.60
T758AA/AE125	1 1/4	32	1.93	49	800	100	0.85
T758AA/AE150	1 1/2	38	2.28	58	800	100	1.15
T758AA/AE200	2	51	2.80	71	800	100	1.49

#### **COUPLING SUGGESTIONS**

Tubular steel full flow male permanently swaged or internally expanded with ferrule to provide maximum hose coupling compatibility.



# **Material Handling**

### **ALFAGOMMA**





#### **General Applications:**

Discharge of dry powders under low pressure, such as dry cement, grains and animal feed transfer.

#### **Construction:**

**Tube:** 3/16" black static conducting NR – compounded to resist cutting by abrasive materials.

Reinforcement: Spiraled high tensile textile

cords.

Cover: Black conductive SBR/NR blend -

abrasion and ozone resistant.

#### **Working Pressure:**

Constant Pressure – 5 Bar (75 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T760 5 BAR (75 PSI) BULK MATERIAL DELIVERY (in white letters)

Nominal S	Specific	ations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T760AA400	4	102	4.53	115	75	100	1.58
T760AA450	4 1/2	115	5.00	127	75	100	1.85
▼ T760AA500	5	127	5.47	139	75	100	2.05
▼ T760AA600	6	152	6.61	168	75	100	2.30

★ Excessive bending during operation may cause premature wear.

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



### **ALFAGOMMA**

# **Material Handling**



**T763AA Series** 75 PSI Heavy Weight Dry **Powder Delivery Hose** 

#### **General Applications:**

Discharge of dry powders under low pressure. Pneumatic transfer of dry materials and abrasive slurries.

#### **Construction:**

Tube: 1/4" black static conducting NR compounded to resist cutting by abrasive materials.

**Reinforcement:** Spiraled high tensile textile

cords.

Cover: Black conductive SBR/NR blend -

abrasion and ozone resistant.

#### Working Pressure:

Constant Pressure - 5 Bar (75 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA - ITALY T763 5 BAR (75 PSI) BULK MATERIAL DELIVERY (in green letters)

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Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)				
T763AA400	4	102	4.72	120	75	100	2.14				
T763AA450	4 1/2	115	5.24	133	75	100	2.30				
T763AA500	5	127	5.71	145	75	100	2.60				

Excessive bending during operation may cause premature wear.

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



# **Material Handling**

### **ALFAGOMMA**°

**HWT763AA Series** 

75 PSI Heavy Duty Dry Powder Delivery Hose 3/8" Tube



#### **General Applications:**

Discharge of dry powders under low pressure. Pneumatic transfer of dry materials and abrasive slurries.

#### **Construction:**

**Tube:** 3/8" black static conducting NR – compounded to resist cutting by abrasive materials.

**Reinforcement:** Spiraled high tensile textile

cords.

Cover: Black conductive SBR/NR blend -

abrasion and ozone resistant.

#### **Working Pressure:**

Constant Pressure - 5 Bar (75 PSI)

#### **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

#### **Branding:**

ALFAGOMMA – ITALY T763 5 BAR (75 PSI) HEAVY DUTY BULK MATERIAL DELIVERY (in green letters)

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Nominal Specifications											
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)				
HWT763AA400	4	102	4.96	126	75	100	2.56				

★ Excessive bending during operation may cause premature wear.

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

★ Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.



## **ALFAGOMMA**

# **Material Handling**



**T766AA Series** 150 PSI Heavy Duty Dry **Powder Delivery Hose** 

### **General Applications:**

Discharge of dry powders in heavy duty applications, such as dry cement, grains and animal feed transfer.

#### Construction:

Tube: 1/4" black static conducting NR compounded to resist cutting by abrasive materials.

**Reinforcement:** Spiraled high tensile textile

cords.

Cover: Black conductive SBR/NR blend -

abrasion and ozone resistant.

### Working Pressure:

Constant Pressure - 10 Bar (150 PSI)

## **Service Temperature Range:**

-22°F (-30°C) to +176°F (+80°C)

### **Branding:**

ALFAGOMMA - ITALY T766 10 Bar (150 PSI) **BULK MATERIAL DELIVERY (in white letters)** 

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Nominal S	Specific	ations					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Standard Length (ft)	Weight (lbs/ft)
T766AA400	4	102	4.65	118	150	100	1.96

Excessive bending during operation may cause premature wear.

#### **COUPLING SUGGESTIONS**

Quick-Acting, pin lug, short shank couplings or combination nipples attached with single bolt, double bolt, wire or band type clamps.

Kuriyama offers a full line of Quick-Acting couplings, pin lug shank couplings and combination nipples. Refer to current Kuriyama-Couplings™ and Accessories Catalog for type and pricing.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



# **Specialty Hoses**

# **ALFAGOMMA**

T146AK Series
1000 PSI Braided MSHA
Mine Spray Hose



### **General Applications:**

Underground mine water spray for dust control. Also usable on continuous mining machinery.

### **Construction:**

**Tube:** Black Extruded SBR/NBR blend – oil mist resistant.

**Reinforcement:** High tensile steel wire braids. **Cover:** Yellow SBR/NBR blend – abrasion, ozone, hydrocarbon and fire resistant – pin

pricked.

### **Working Pressure:**

Constant Pressure - 70 BAR (1000 PSI)

## **Service Temperature Range:**

-22°F (-30°C) to +200°F (+90°C)

### **Branding:**

ALFAGOMMA – ITALY – 70 BAR (1000 PSI) MINE SPRAY MSHA IC – 152/6 (embossed)

Nominal	Spec	ificati	ons					
Series Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Max Rec. WP (psi)	Min. Bending Radius at 68°F (in)	Standard Length (ft)	Weight (lbs/ft)
T146AK075	3/4	19	1.10	28	1000	3 3/4	50/100	0.45
T146AK100	1	25	1.34	34	1000	5	50/100	0.58
T146AK125	1 1/4	32	1.61	41	1000	6 1/4	50/100	0.75
T146AK150	1 1/2	38	1.93	49	1000	7 1/2	50/100	1.08
T146AK200	2	51	2.48	63	1000	10	50/100	1.47

#### **COUPLING SUGGESTIONS**

Permanently attached crimped hydraulic couplings.



# **ALFAGOMMA**

# **Specialty Hoses**



# **T957LL Series** 300 PSI Furnace Door **Coolant Hose**

### **General Applications:**

To convey cooling water to furnace doors in steel mills, glass plants, foundries, or where the hose is subjected to high temperatures and splashes of white-hot molten metals or glass.

#### Construction:

Tube: White EPDM.

Reinforcement: High tensile textile cords. Cover: Beige EPDM - heat resistant, nonconductive resin-coated dust-free fiberglass

cover.

## **Working Pressure:**

Constant Pressure - 20 BAR (300 PSI)

### Service Temperature Range:

Tube: -40°F (-40°C) to +248°F (+120°C)

Cover:  $-40^{\circ}F$  ( $-40^{\circ}C$ ) to  $+1000^{\circ}F$  (up to  $+540^{\circ}C$ )

Nominal	Specific	cations					
Series Number	ID (in.)	ID (mm)	OD (in.)	OD (mm)	Max Rec. WP (PSI)	Standard Length (ft)	Weight (lbs./ft.)
T957LL050	1/2	13	0.98	25	300	100	0.30
T957LL075	3/4	19	1.22	31	300	100	0.46
T957LL100	1	25	1.46	37	300	100	0.56
T957LL125	1 1/4	32	1.81	46	300	100	0.82
T957LL150	1 1/2	38	2.13	54	300	100	0.98
T957LL200	2	51	2.64	67	300	100	1.26
T957LL250	2 1/2	63	3.19	81	300	100	1.55
T957LL300	3	76	3.78	96	300	100	2.15

Special order, minimums required. Contact your nearest KOA warehouse location for more information.

# Care, Maintenance & Storage AALFAGOMMA

# (Reprinted from RMA Hose Handbook 1 P-2 - Fourth Edition)

Hose has a limited life and the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials.

# GENERAL CARE AND MAINTENANCE OF HOSE

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hoses should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as to not subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

## **STORAGE**

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored, and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom. Since hose products vary considerably in size, weight, and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as could a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents, and corrosive liquids; shipping containers also afford some protection against ozone and sunlight.

Certain rodents and insects will damage rubber hose products, and adequate protection from them should be provided.

The ideal temperature for the storage of rubber products ranges from 50° to 70°F (10-20°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid the adverse effects of high ozone concentration, rubber hose products should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration. Exposure to direct or reflected sunlight — even through windows — should also be avoided. Uncovered hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free of dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best conditions, an unusually long shelf life could deteriorate certain rubber products.





# **Technical Data**

# Flexibility & Bend Radius

Flexibility and minimum bend radius are important factors in hose design and selection if it is known that the hose will be subjected to sharp curvatures in normal use. When bent at too sharp an angle, hose may kink or flatten in the cross-section. The reinforcement may also be unduly stressed or distorted and the hose life thereby shortened.

Adequate flexibility means the hose should be able to conform to the smallest anticipated bend radius without over stress. The minimum bend radius is generally specified for each hose in this catalog. This is the radius to which the hose can be bent in service without damage or appreciably shortening its life. The radius is measured to the inside of the curvature.

Formula to determine minimum hose length given bend radius and degree of bend required:

$$\mathbf{L} = \frac{\mathbf{A}}{\mathbf{360}^{\circ}} \times \mathbf{2}\pi \, \mathbf{B}$$

Where:

L = Minimum length of hose to make bend (Bend must be made equally along this portion of hose length).

A = Angle of bend

B = Given bend radius of hose

 $\pi = 3.14$ 

Example: To make a 60° bend at the hoses's rated minimum bend radius of 15 cm:

$$L = \frac{60}{360^{\circ}} \times 2 \times 3.14 \times 15 \cong 16 \text{ cm}$$

Thus, the bend must be made over approximately 16 cm of hose length. The bend radius used must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bend radius than minimum may kink the hose and the result in damage and early failure.

## **Oil Resistance**

The definition of Oil Resistance is currently related to Tensile Retention % and Volume Swell % of the tested material after immersion in ASTM No. 3 Oil and in ASTM Fuel B for 70 hours at 100°C (212°F). The hose industry is currently classifying the materials as follows:

Material C	lassification	Tensile Retention	Volume Swell
Maximum	ASTM No. 3 Oil	80% Min.	25% Max.
Oil Resistance	ASTM Fuel B	50% Min.	35% Max.
Medium	ASTM No. 3 Oil	40% Min.	100% Max.
Oil Resistance	ASTM Fuel B	35% Min.	60% Max.
None	ASTM No. 3 Oil	Less Than 40%	More Than 100%
Oil Resistance	ASTM Fuel B	Less Than 35%	More Than 80%

# **Safety Features**

Air hose – 4:1 Safety factor. Burst vs Working pressure

Water hose – 3:1 Safety factor. Burst vs Working pressure

Steam hose – 10:1 Safety factor. Burst vs Working pressure



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# **Chemical Guide**



The Chemical Guides in this section are offered as a general indication of the compatibility of the various materials used in ALFAGOMMA® hose with the chemicals and fluids listed. The basis for the ratings in this guide include actual service experience, the advice of various polymer suppliers, and the considered opinion of our rubber chemists. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle. Some of the variables that come into play in the resistance of a compound to chemical attack are:

#### 1. Temperature of the Material Transmitted:

Higher temperatures increase the effect of chemicals on rubber compounds. The increase varies with the polymer and the chemical. A compound quite suitable at room temperature might fail very quickly at higher temperatures.

#### 2. Service Conditions:

A rubber compound usually swells when exposed to a chemical. With a given percent of swell, the hose tube may function satisfactorily if the hose is in a static condition, but fail quickly if the hose is subject to flexing.

#### 3. The Grade or Blend of the Rubber Compound:

Basic rubber polymers are sometimes mixed or blended together to enhance a particular property for a specific service. The reaction to a particular chemical blend of polymers may, therefore, be somewhat different from the reaction to the single ones. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle.

4. Alfagomma® hoses are produced using silicone free release agents.

### KEY TO GENERAL CHEMICAL RESISTANCE CHART

**Note:** All data based on 20°C (68°F) unless otherwise noted.

Blank = No Data G = Good C = Conditional X = Unsatisfactory

 $\mathsf{E} = \mathsf{Excellent} \qquad \mathsf{F} = \mathsf{Fair} \qquad \mathsf{I} = \mathsf{Insufficient} \, \mathsf{Data}$ 

# GENERAL CHEMICAL RESISTANCE OF ALFAGOMMA® HOSE COMPOUNDS

ASTM Designation D1418-93	Common Name	Composition	General Properties
CIIR	Chlorobutyl	Chloro-Isobutene-Isoprene	Excellent resistance to high heat steam. Very good weathering resistance, low permeability to air. Good physical properties. Poor resistance to petroleum-based fluids.
CR	Neoprene	Chloroprene	Excellent weathering resistance. Flame retarding. Good oil resistance. Good physical properties.
CSM	Hypalon <sup>®</sup>	Chloro-sulfonated polyethylene	Excellent ozone, weathering and acid resistance. Good abrasion and heat resistance. Can be compounded for good oil resistance.
EPDM	EPM or EPDM	Ethylene-propylene-diene-terpolymer	Good general purpose polymer. Excellent heat, ozone and weather resistance. Not oil resistant.
NBR	BUNA-N or Nitrile	Nitrile-Butadiene	Excellent oil resistance. Good physical properties.
NR	Natural	Isoprene Rubber (Natural)	Excellent physical properties, including abrasion resistance. Not oil resistant.
SBR	SBR	Styrene-Butadiene Rubber	Good physical properties, including abrasion resistance. Not oil resistant.
UHMWPE	UHMWPE	Ultra-High Molecular Weight Polyethylene	Excellent resistance to a majority of existing chemicals. Meets FDA requirements for food and beverages.
XLPE	Cross Linked Polyethylene	Cross Linked Polyethylene	Excellent resistance to most solvents, oils and chemicals. Do not confuse with chemical properties of standard polyethylene.
	Synthetic Rubber	Synthetic Rubber	Black conductive synthetic rubber, excellent resistance to Biofuel based fluids.



Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]:

E – Excellent; G – Good; F – Fair; C – Conditional; I – Insufficient Data; X – Not Recommended; Blank – No Data

COMPOUND

COMPOUND

		1	· `	<b>.</b>	<b>.</b>		, ,	_		
Chemical or Material Conveyed	CIIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	.629AA
ACETALDEHYDE	E	С	F	E	X	F	X	E		$\frac{\Gamma}{\chi}$
ACETIC ACID, GLACIAL	G	F	C	G	X	C	X	E	E	X
ACETIC ACID, 10%	G	E	E	E	E	G	F	E	E	Ê
	G	F	E	E	F	-	F	E	E	F
ACETIC ACID, 50%						X		_		
ACETIC ANHYDRIDE	C	G	E	G	X	F	X	E	E	X
ACETIC OXIDE (Acetic anhydride)	G	G	E	G	X	F	X	E	E	X
ACETONE CVANOUVDBIN	E	C	X	E	X	C	С	E	E	X
ACETONE CYANOHYDRIN	E	G	F	E	X	F				X
ACETONITRILE	E	E	G	E	X	G	· ·	_	_	X
ACETOPHENONE	G	X	X	E	X	C	X	E	E	X
ACETYL ACETONE	E	X	X	E	X	X	X			X
ACETYL CHLORIDE	X	X	C	X	X	X	Х	_	_	X
ACETYL OXIDE (Acetic anhydride)	G	G	E	G	X	F	_	E -	_E	X
ACETYLENE	E	E	С	E	E	C	F	E	E	E
ACETYLENE DICHLORIDE	F	X	Х	С	Х	X	Х			Х
ACETYLENE TERACHLORIDE	X	С	X	С	X	X				Х
ACROLEIN	E	G	G	E	F	G	F			F
ACRYLONITRILE	X	Х	С	E	X	C	F	E	E	Х
ACRYLIC ACID		Х	G	Х	Х	X				Х
ADIPIC ACID	Х	E	G	С	E	E		E	E	E
AIR, +300°F	G	G	G	G	G	X	Х			G
ALK-TRI	X	Х	X	Х	X	X				Х
ALLYL ALCOHOL	E	E	E	E	E	E		E	E	E
ALLYL BROMIDE	Х	Х	X	Х	X	X				Х
ALLYL CHLORIDE	C	Х	X	Х	G	X	E	E	F	G
ALUM (Aluminium potassium sulfate)	E	Ε	E	G	С	E		E	Ε	С
ALUMINIUM ACETATE	G	С	F	E	С	E	Χ			С
ALUMINIUM CHLORIDE	E	Ε	Ε	E	Ε	E	Ε	E	Ε	Ε
ALUMINIUM FLUORIDE	E	Ε	Е	Ε	Е	Ε	Ε	Ε	Ε	Ε
ALUMINIUM FORMATE	G	Е	χ	Е	Χ	χ				Х
ALUMINIUM HYDROXIDE	E	Е	Ε	Е	Ε	Ε	G	Ε	Е	Е
ALUMINIUM NITRATE	E	Е	Ε	Е	Ε	Ε	Е			Е
ALUMINIUM SULFATE	Α	G	Е	Е	Е	Е	G	Е	Е	Е
ALUMUS-NH3-CR-K										
AMINES-MIXED		С	χ	G	Χ	С	G			Х
AMINOBENZENE (Aniline)	Е	Х	С	С	χ	Х	Х	Е	Е	Х
AMINODIMETHILBENZENE	G	Х	F	С	С	Х				С
AMINOETHANE (Ethylamine)	G	С	F	E	С	С	χ	Е	Е	C
AMINOXYLENE	G	Х	Х	E	С	Х				С
AMMONIUM CARBONATE	E	E	C	E	C	E	Е			C
AMMONIUM CHLORIDE	E	E	E	E	G	E	E	Е	E	G
AMMONIUM HYDROXIDE	G	E	E	E	С	G	Х	E	E	С
AMMONIUM NITRATE	E	E	E	E	E	E	E	E	E	E
AMMONIUM PHOSPHATE, DIBASIC	E	E	E	E	E	E	E	E	E	E
AMMONIUM SULFATE	E	E	E	E	E	E	G	E	E	E
AMMONIUM SULFIDE	E	E	E	E	C	E	G	E	E	C
AMMONIUM THIOSULFATE	E	E	E	E	С	E	u			C
AMYL ACETATE	_		_	C		C	v	Е	_	
	G	X	X		X		Х	Е	E	X
AMYL ACETONE	G	X	X	G	X	X	^	-	_	X
AMYL ALCOHOL	E	C	E	E	C	C	G	E	E	C
AMYL BROMIDE	X	X	X	C	X	X	v	-	_	X
AMYL CHLORIDE	X	X	X	X	X	X	Х	E	Е	X
AMYL ETHER	X	X	F	X	С	X				C
AMYLAMINE	G	С	F	X	F	F				F

			C	,Oi	WP	Οl	JN	D		
Chemical or	<b>~</b>		CSM	EPDM	NBR		SBR	XLPE	UHMWPE	T629AA
Material Conveyed	CIR	8	ಜ	<u></u>	뿔	뚪	SE	×	ᆿ	T6
ANETHOLE	Х	Х	Х	Х	Χ	Х				Χ
ANILINE	Е	Х	С	С	χ	Х	Х	Ε	Ε	Χ
ANILINE DYES	G	С	G	С	χ	С	G	Е	Е	Χ
ANILINE OIL	G	χ	С	С	Х	Х	χ	Е	Е	Χ
ANIMAL FATS	С	С	F	С	Е	Х	Х	Е	Е	Ε
ANTIMONY PENTACHLORIDE		С	Х	С	χ	Х		Ε	Е	χ
AQUA REGIA	С	χ	С	С	χ	Х	χ	Χ	χ	Χ
ARGON	G	G	χ	Е	Е	χ	С			Е
ARSENIC ACID	Е	Е	Е	Е	Е	Е	Е	Е	Е	Ε
ASPHALT	Х	С	F	χ	С	χ	χ	Е	Е	С
ASTM FUEL A	Х	С	С	χ	Е	χ	χ			Е
ASTM FUEL B	Х	χ	χ	χ	С	Χ	χ			С
ASTM FUEL C	Х	Х	χ	χ	C	χ	Х			С
ASTM OIL NO.1	Х	E	С	χ	E	χ	χ	Е	Е	E
ASTM OIL NO.2	Х	С	Х	χ	E	χ	χ	E	E	E
ASTM OIL NO.3	X	C	C	χ	E	χ	χ	E	E	E
ASTM OIL NO.4	X	Х	Х	Х	C	Х	Х	-		C
AUTOMATIC TRASMISSION FLUID	X	C	C	Х	E	Х	Х			E
BANANA OIL	C	Х	C	C	X	X				X
BARIUM CHLORIDE	E	E	E	E	E	E	Е	Е	Е	E
BARIUM HYDROXIDE	E	E	E	E	E	E	E	E	E	E
BARIUM SULPHIDE	E	E	E	E	E	E	G	E	E	E
BEER	E	E	E	E	E	E	E	E	E	E
BEET SUGAR LIQUORS	E	C	E	E	E	E	E	E	E	E
BENZAL CHLORIDE	G	-			X					Х
BENZAL CHLORIDE BENZALDEHYDE	G	Х	х	Е	X	Х	Х	E	E	X
BENZENE	X	C	c	C	χ	X	X	E	F	
	E	E	C	C	χ	X	^		Г	X
BENZENE CARBOXYLIC ACID	X	C	C	X	E	^	v	E	E	X E
BENZINE (Gasoline)	C	E	C	C	X	v	X			
BENZOIC ACID	X	C	C	C	χ	X	X	-	F	X
BENZOL (Benzene)	<b>-^</b>	Х	X	_	X	_	^	E	Г	X
BENZOTRICHLORIDE	-	_		E		X				X
BENZYL ACETATE	E	E	G	E	X	X	v			X
BENZYL ALCOHOL	E	C	C	C	X	X	X			X
BENZYL CHLORIDE	X	X	X	X	X	X	X			X
BENZYL ETHER (Dibenzyl Ether)	G	X	X	С	Х	Х	Х			X
BIODIESEL (BD100 0 B100)										E
BIODIESEL (BD20 0 B20)	-									E
BIOETHANOL (E85)	-									E
BIS (2-CLOROETHYL) ETHER	<u> </u>	_	_	_	_	_	_	_	_	_
BLACK SULFATE LIQUOR	G	G	G	G	G	G	G	E	E	G
BLEACH	E	С	<u>E</u>	E	X	С	X	G	F	X
BORAX SOLUTION	E	E	E	E	С	С	G	E	E	С
BORIC ACID	E	E	E	E	E	E	E	E	E	E
Brake fluid (HD-557)12 Days	E	С	C	E	С	X	E			С
BRINE	E	E	E	E	E	E		E	Е	E
BROMACIL										
BROMOBENZENE	X	Х	X	Х	X	Х	Х			X
BROMOCHLOROMETANE	С	Х	X	G	X	X		F	F	X
BROMOETHANE (Ethyl bromide)	С	X	X	X	С	С	X	Е	Ε	С
BROMOTOLUENE	X		X		X	X				X
BUGDIOXANE										
BUNKER OIL	X	G	С	χ	E	Χ	χ			Ε
BUTADIENE	Х	X	G	X	X	X	χ	Ε	E	X

 $FOR \ APPLICATIONS \ INVOLVING \ INDUSTRIAL \ ACID \ CHEMICALS \ AND \ ALCOHOLS, \ PLEASE \ REFER \ TO \ T5050G \ AND \ T5090E \ CHEMICAL \ HOSES.$ 



Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data **COMPOUND COMPOUND** 

Chemical or Material Conveyed	CIIR	CR	CSM	EPDM	NBR	NR.	SBR	XLPE	UHMWPE	T629AA
BUTANE	Χ	E	С	Χ	Е	Χ	Χ	E	Е	E
BUTANOIC ACID	Х	Χ	С	С	С	С				С
BUTANOL (Butyl alcohol)	С	Ε	Ε	С	Е	Е	Ε	Ε	Ε	Е
BUTANONE	Е	Χ	χ	Е	Х	Х	Χ	Е	Е	Х
BUTOXYETHANOL	С	Χ	G	Е	С	Х				С
BUTYL ACETATE	С	Χ	χ	С	χ	χ	Χ	Ε	Ε	Х
BUTYL ACRYLATE	Х	Χ	Χ	С	χ	Χ	Χ	Ε	Ε	χ
BUTYL ALCOHOL	С	Ε	Е	С	Е	Е	Ε	Е	Е	Е
BUTYL ALDEHYDE (Butyraldehyde)	С	Χ	Χ	С	Х	Х	Χ	Е	Е	Х
BUTYL BENZYL PHTHALATE	E	Е	χ	Ε	Χ	Χ		Е	Е	Χ
BUTYL CARBITOL	Ε	Χ	С	Е	Х	Х	Χ			Χ
BUTYL CELLOSOLVE	C	Χ	G	С	С	Х	Χ	Е	Е	C
BUTYL CHLORIDE	F	Χ	Χ	Χ	Х	Х				Χ
BUTYL ETHER	С	С	χ	С	Χ	Χ	Χ	Ε	Ε	Χ
BUTYL ETHER ACETALDEHYDE	G	Χ	Χ	Χ	χ	Χ				Х
BUTYL ETHYL ETHER	Х	Χ	С	F	G	Χ				G
BUTYL OLEATE	С	Χ	Χ	С	Х	Χ	Χ			Х
BUTYL PHTHALATE	G	Χ	χ	Е	Х	Х	Χ	Е	Е	Х
BUTYL STEARATE	С	Χ	χ	Χ	С	Х	Χ	Е	Е	С
BUTYLENE	Х	С	С	Χ	С	Х	Χ			С
BUTYRALDEHYDE	С	Χ	χ	С	χ	χ	Χ	Е	Е	Χ
BUTYRIC ACID	Х	Χ	С	С	С	С	Χ	Е	Е	С
BUTYRIC ANHYDRIDE	F	G	G	Е	С	F				С
CADMIUM ACETATE	Е		Е		χ	χ				χ
CALCIUM ALUMINATE	Е		Е		Е	Е				Е
CALCIUM BICHROMATE	Е	Е	F	Е	С					С
CALCIUM BISULFIDE	Х	Е	F	Е	С	χ	G			С
CALCIUM CHLORIDE	Е	Е	Е	Е	E	Е	E	Е	Ε	E
CALCIUM HYDROXIDE	Е	Ε	Ε	Е	Е	Ε	Ε	Ε	Е	Е
CALCIUM HYPOCHLORITE	Е	С	Е	Ε	С	С	Χ	Ε	Ε	С
CALCIUM NITRATE	Е	Е	Е	Е	Е	Е	Ε			Е
CALCIUM SULFIDE	Е	Е	Е	Е	Е	С	Χ			Е
CALCIUM ACETATE	Е	С	С	Е	С	Е	Χ			С
CAPRYLIC ACID	F		G		F	С				F
CARBAMIDE (Urea)	Е	G	Е	Ε	G	Е		Е	Е	G
CARBITOL	С	С	С	С	С	С	Ε	Е	Е	С
CARBOLIC ACID PHENOL	С		С			С				
CARBON DIOXIDE	Е	G	Ε	G	Ε	G	G	Ε	Ε	E
CARBON DISULFIDE (Carbon bisulfide)	χ	Χ	χ	Χ	χ	Χ		С	С	Χ
CARBON MONOXIDE	Е	С	С	Е	Е	С	G	Е	Е	Е
CARBON TETRACHLORIDE	Х	Χ	χ	Χ	Х	Х		Е	Е	χ
CARBONIC ACID	Е	Е	Е	Е	С	Е	G	Е	Е	С
CASTOR OIL	С	Ε	Ε	С	Е	Е	Ε	Ε	Ε	Е
CAUSTIC SODA	Е	G	Е	G	С	Е	Е	Е	Е	С
CELLOSOLVE ACETATE	С	Χ	χ	G	Х	С	Χ	Е	Ε	Х
CELLUGUARD	Е	Ε	Ε	Ε	Ε	Ε	Ε			E
CETYLIC ACID (Palmitic acid)	С	G	С	С	Е	С	G	Е	Ε	Е
CHINA WOOD OIL (Tung oil)	С	С	С	Χ	Е	Х	Χ	Ε	Е	E
CHLORINATED SOLVENTS	Х	Χ	χ	Χ	χ	Χ	Χ	Е	Ε	χ
CHLORO-2-PROPANONE	С		Χ			Х				
CHLOROACETIC ACID	С	Χ	G	С	Х	Х	Χ	Е	Е	Х
CHLOROACETONE	С	Χ	Χ	E	Х	Х	Χ	Е	Е	Х
CHLOROBENZENE	χ	Χ	χ	Χ	Х	Х	Χ	Ε	Е	Х
CHLOROBUTANE	F	Χ	Χ	Χ	Χ	Χ				Χ

			C	OI.	MP	OL	JN	D						C	Or	MP	Οl	JN	ט		
	CIIR	CR	CSM	EPDM	NBR	¥	SBR	XLPE	UHMWPE	T629AA	Chemical or Material Conveyed	CIIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	T629AA
	χ	Е	С	Χ	Е	Х	Х	Е	Е	Е	CHLORODANE (Chlordane)	Χ	С	С	Χ	С	χ	χ			С
	χ	Χ	С	С	С	С				С	CHLOROETHYL BENZENE	Χ	χ	χ	χ	С	χ				С
	С	Е	Ε	С	Ε	Ε	Е	Ε	Ε	Ε	CHLOROFORM	Χ	Χ	χ	Χ	Χ	χ	χ	F	F	Χ
	Ε	χ	χ	Ε	χ	χ	χ	Ε	Ε	χ	CHLOROPENTANE	Χ	Χ	χ	Χ	Χ	χ				Χ
	C	Х	G	Ε	С	Х				C	CHLOROSULFONIC ACID	X	X	X	X	X	χ	χ	F	χ	Χ
	С	Χ	X	С	X	X	X	E	Ε	X	CHLOROTOLUENE	X	X	X	X	X	X	X			Х
	X	Х	X	С	X	X	X	E	E	X	CHLOROX	С	С	С	G	С	X	Х			С
	С	Ε	Ε	С	E	E	E	E	Ε	Ε	CHROME PLATING SOLUTIONS	С	X	X	С	X	X	Χ			Х
	С	Х	X	С	Х	X	X	E	E	X	CHROMIC ACID	С	X	E	С	Х	С	X	Е	E	Х
	Ε	Е	X	E	Х	X		E	E	X	CHROMIUM TRIOXIDE (Chromic oxide)	G	Х	E	С	X	Х	Χ			Х
	E	X	С	E	X	X	X	_		X	CINNAMENE (Vinylbenzene)	X	X	X	X	С	X	Х		_	С
_	C	X	G	C	C	X	X	E	E	C	CIS-9-OCTADECENOIC ACID (Oleic acid)	X	C	C	C	G	X	X	E	E	G
	F	X	X	X	X	X		_	-	X	CITRIC ACID	E	E	E	E	E	E	E	E	E	E
	C	C	X	C	X	X	Х	Е	E	X	COAL TAR OIL (Coal oil)	X	G	F	X	E	X	X	E	E	E
-	G	X	C	X F	X G	X				X G	COAL TAR COAL TAR NAPHTHA	X	C	C	X	C	X		E E	E E	C
	C	Х	Х	С	Х	X	Х			X	COCONUT OIL	C	C	C	C	^ E	X	Х	E	E	X E
-	G	X	Х	E	Х	X	X	Е	E	χ	COKE OVEN GAS	C	Х	C	X	X	Ĉ	X	E	E	X
	C	X	X	X	Ĉ	X	X	E	E	Ĉ	COOLANOL (Monsanto)	X	C	C	X	E	Х	X		-	E
	Х	Ĉ	C	X	С	X	X	_		С	COPPER CHLORIDE	E	С	C	E	E	Ê	Ē	E	Е	E
	C	Х	Х	C	Х	X	X	Е	Е	Х	COPPER CYANIDE	E	E	E	E	E	Ē	Ē	Ē	Ē	E
	Х	X	C	C	C	C	X	E	E	C	COPPER HYDRATE	Ē	_	G		G	F	_	_	_	G
	F	G	G	E	C	F		_		С	COPPER HYDROXIDE (Copper hydrate)	E		G		G	F				G
	E		E		Х	χ				χ	COPPER SULFATE	С	Е	E	Е	E	С	G	Ε	Е	E
	Е		Ε		Е	Е				Ε	CORN OIL	С	С	С	С	Е	χ	χ	Е	Е	Е
	Е	Е	F	Е	С					С	COTTONSEED OIL	С	С	С	С	Ε	χ	χ	Е	Е	Е
	χ	Ε	F	Ε	С	χ	G			С	CREOSOTE	Χ	С	χ	χ	С	χ	χ	Ε	Е	С
	Ε	Е	Ε	Е	Ε	Е	Ε	Е	Е	Ε	CRESOLS	Χ	χ	χ	χ	X	χ	χ	Е	Е	Χ
	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	CRESYLIC ACID	Χ	χ	X	χ	X	χ	χ	Ε	Ε	Χ
	Ε	С	E	E	С	С	X	E	E	C	CROTONALDEHYDE	E	X	X	E	X	χ	F	E	E	Χ
	Ε	Е	Ε	Ε	E	E	E			Ε	CRUDE OIL	X	С	С	X	С	X	X	Ε	Ε	С
	Ε	Е	Ε	E	E	С	X			E	CUMENE	X	X	X	X	X	X	Χ			Х
	Ε	С	С	E	С	E	X			С	CUPRIC CARBONATE										
	F		G		F	C				F	CUPRIC HYDROXIDE (Copper hydroxide)	E		G		G	F				G
	E	G	E	E	G	E	_	E	<u>E</u>	G	CUPRIC NITRATE (Copper nitrate)	E	E	<u>E</u>	C	C	G	_	E	E	C
	С	С	C	С	С	C	E	E	Е	С	CUPRIC SULFATE (Copper sulfate)	C	E	E	E	E	C	G	E	E	E
_	C		C	_	_	C	_	_	-	-	CUTTING OIL	X	C	C	X	E	C	X	-	_	E
-	E	G	E	G	E	G	G	E	<u>E</u>	E	CYCLOHEXANE	X	X	С	X	E	X	X	E	E	E
-	X	X	X	X	X	X	_	С	С	X	CYCLOHEXANOL	X	C	C	X	G	C	X	E	E	G
	E	C	C	E	E	C X	G	E E	E E	E	CYCLOHEXANONE	C	C	X	C	X G	X	X	E	E	X G
	X E	X E	X E	X E	C	E	G	E	E	C	CYCLOPENTANE CYCLOPENTANOL	λ	U	Χ	λ	u	Λ.				<u> </u>
	C	E	E	C	E	E	E	E	E	E	CYCLOPENTANONE	Х		Х		Х	Х				χ
	E	G	E	G	C	E	E	E	E	C	CYCLOPENTIL ALCOHOL (Cyclopentanol)	^	F	^	С	X	^				χ
	C	Х	Х	G	Х	C	Х	E	E	Х	D-FURALDEHYDE (Furfural)	С	F	С	E	G	χ				G
	E	E	E	E	E	E	E	_	_	E	DDT IN KEROSENE	Х	C	C	X	E	X	Х			E
	C	G	C	C	E	C	G	Е	Е	E	DECAHYDRONAPHTHALENE (Decalin)	X	X	X	Х	X	χ	Ë	E	Е	X
	С	С	C	Х	E	Х	Х	E	E	E	DECAHYDROXYNHAPHTHALENE							_			
	Х	χ	χ	Х	χ	Х	Х	E	E	Χ	DECALIN	Χ	Χ	χ	Χ	Χ	χ	Е	Е	Е	Х
T	C		χ			Х					DECYL ALCOHOL (Decanol)	X	X	C	X	E	χ				E
	С	χ	G	С	Х	Х	Χ	Е	Ε	χ	DECYL ALDEHYDE	F		Χ	Χ	Χ	χ				Χ
	С	χ	χ	Ε	Χ	χ	χ	Ε	Е	χ	DECYL BUTYL PHTHALATE	Е		χ		Χ	χ				Χ
	χ	χ	χ	Χ	χ	χ	Χ	Ε	Ε	Χ	DECIL CARBINOL										
	F	Χ	Χ	Χ	Χ	Х				X	DETERGENT, WATER SOLUTION	Ε	С	С	Ε	Ε	Ε	G	Ε	Ε	Ε



Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data **COMPOUND** 

								_	PE	٩
Chemical or	~		Σ	EPDM	В		~	XLPE	M	T629A
Material Conveyed	CIR	8	CSM	EPI	NBR	띪	SBR	X	Ш	<u>19</u>
DEVELOPING FLUID (PHOTO)	С	Е	Е	С	E	Е	G			E
DEXTRON	Х	С	χ	Χ	Е	Х	Х			Е
DI (2ETHYLHEXYL) ADIPATE										
(Dioctyl adipate)	E	Х	Χ	G	X	Х		G	G	Х
DI (2ETHYLHEXYL) PHTHALATE										
(Dioctyl phthalate)	C	Х	χ	С	X	Х	Х	Ε	Ε	Х
DI-ISO-BUTYLENE	Х	С	Х	Χ	С	Х	Х	Ε		С
DI-ISO-DECYL PHTHALATE	Е	χ	Χ	Е	Χ	Χ				Х
DI-ISO-PROPANOLAMINE	E	G	F	Е	G	G				G
DI-ISO-PROPYL ETHER	Х	С	С	Χ	G	Χ		Ε	Ε	G
DI-ISO-PROPYL KETONE	Е	Х	χ	Е	Χ	Х	Х	Е		Х
DI-P-MENTHA-1,8-DIENE (Cinene)	Х	χ	χ	Χ	С	χ				С
DIACETONE ALCOHOL	Е	F	С	Е	Χ	Х	Х	Е	Е	Х
DIACETYLMETHANE (Acetylacetone)	Е	χ	Χ	Ε	Χ		χ			Х
DIALLYLPHTHALATE (Diallyl phthalate)										
DIAMMONIUM ORTHOPHOSPHATE		Ε		Ε	Ε					Е
DIAMYL NAPHTHALENE	Е		Χ			Χ		Ε	Ε	
DIAMYLAMINE	Е	С	С	Е	G	G	Х			G
DIAMYLENE	Х	Χ	Χ	Χ		Χ				
DIAMYLPHENOL	Х		Χ		Χ	Χ		Ε	Ε	Х
DIBENZYL ETHER	С	χ	χ	С	Χ	χ	χ			Х
DIBROMOBENZENE	Х	Х	χ	Χ	χ	Х				Х
DIBROMOMETHANE (Methylene bromide)	Х	χ	χ	С	Χ	χ				Х
DIBUTYL ETHER	С	С	χ	С	Χ	χ	χ	Е	Е	Х
DIBUTYL PHTHALATE	С	Х	χ	С	Χ	Х	Х	Е	Ε	Х
DIBUTYL SEBACATE	С	χ	χ	С	Χ	Χ	χ	Е	Е	Х
DIBUTYLAMINE	Х	С	С	F	Χ	χ	Х			Х
DICALCIUM PHOSPHATE	Е	Е	Е	Ε	Ε	Ε				Е
DICHLOROETHYLENE (1,2-Dichloroethene)	С	Х	χ	С	Χ	Х		F	F	Х
DICHLOROACETIC ACID	С	χ	χ	Χ	χ	Х	χ	Ε	Ε	Х
DICHLOROBENZENE	Х	χ	χ	χ	χ	Х	χ			Х
DICHLOROBUTANE	Х	χ	χ	Χ	С	Χ	χ			С
DICHLORODIFLUOROMETHANE	С	С	С	С	С	С	Е	Е	G	С
DICHLOROETHANE	C	χ	X	X	Х	Х	Х	E	E	X
DICHLOROETHYL ETHER	X	χ	Х	Х	Х	Х				Х
DICHLOROHEXANE	Х	χ	χ	Χ	χ	χ				χ
DICHLOROMETHANE	Х	Х	Х	Χ	χ	Х	Х			Х
DICHLOROPENTANE	Х	χ	χ	Χ	χ	χ	χ			Х
DICHLOROPROPANE	Х	Χ	Χ	Χ	F	Х		G	G	F
DICHLOROPROPENE	Х	Х	Х	Χ	С	Х		G	G	С
DICHLOROTOLUENE										
DIESEL OIL	Х	С	С	Χ	Е	Х	χ	Е	Е	E
DIETHANOL AMINE	E	G	F	G	С	G	χ			C
DIETHYLBENZENE	Х		Х			Х	χ			
DIETHYL ETHER	X	Х	Х	Х	Χ	Х	Х	Е	E	Х
DIETHYL KETONE	G	Х	X	G	X	X	<u> </u>	E	E	X
DIETHYL OXALATE	X	Х	X	Х	X	F		Ī	_	X
DIETHYL PHTHALATE	X	Х	X	F	X	X		E	Е	X
DIETHYL SEBACATE	G	X	F	F	C	X	Х	_	_	C
DIETHYL SULFATE	C	E	X	E	Х	X	E			X
DIETHYL AMINE	C	C	C	C	C	C	G	E	Е	C
DIETHYLENE GLYCOL	E	E	E	E	E	E	E	E	E	E
DIETHYLENE OXIDE	X	Х	Х	E	X	X	_	<u> </u>	_	X
DIETHYLENETRIAMINE	Ê	X	F	E	G	G	Х			G
DIE I III LENE I I II IANIINEL		_^		_	u	u	_^_			u

	CIIR	CR	CSM	EPDM	NBR	R	SBR	XLPE	UHMWPE	T629AA	Chemical or Material Conveyed	CIIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	T629AA
	С	Ε	Ε	С	Ε	Ε	G			Ε	DIETHYLTRIAMINE										
	χ	С	X	X	E	X	X			E	DIHYDROXY SUCCINIC ACID	G	G	E	G	G	E				G
											DIHYDROXYDIETHYL ETHER										
	E	Χ	X	G	X	X		G	G	Х	(Diethylene glycol)	E	E	E	E	E	E		E	Е	E
											DIISOBUTYL KETONE	G	X	Х	E	Х	X	Χ	Ε	Ε	Χ
_	С	Х	X	С	X	X	Х	E	E	Х	DIISODECYL PHTHALATE	E	X	Х	E	Х	X		Ε	Ε	Χ
	Χ	С	X	X	С	X	X	E		С	DIISOOCTYL ADIPATE	E	X	X	E	X	X				Χ
	Ε	Χ	X	E	X	X				X	DIISOOCTYL PHTHALATE	E	X	Х	G	X	Χ		E	E	Χ
	Ε	G	F	E	G	G				G	DIMETHYL CARBINOL	E	G	E	E	С	E		E	E	С
	X	С	С	Х	G	X		E	E	G	DIMETHYL KETONE	E	С	Х	E	Х	С	F	E	E	Χ
	Ε	Χ	X	E	X	X	χ	E		Х	DIMETHYL PHTHALATE	C	X	X	С	X	X	X	Ε	E	Х
	X	Χ	X	Х	С	X				С	DIMETHYL SULFATE	G	X	Х	X	Х	X		Ε	E	Х
	Ε	F	C	E	X	X	Х	E	E	X	DIMETHYL SULFIDE	F	X	Х	X	Х	X				Х
_	E	Х	X	E	X		Х			X	DIMETHYL-3-PENTANONE										
_											DIMETHYL-4-HEPTANONE										
		Е		E	E					E	DIMETHYLAMINE	G	X	X	E	F	G	X	E	E	F
_	E		X			X		E	E		DIMETHYLANILINE	G	X	X	E	X	X	X		$\Box$	Х
	E	С	С	E	G	G	Х			G	DIMETHYLBENZENE	Х	X	X	X	X	X	X			Х
	X	Χ	X	Х		X					DIMETHYLBUTANE (iso-Pentane)	X		X			X				
	Χ		X		X	X		E	E	Х	DIOCTYL ADIPATE	E	X	X	G	X	X				Х
_	С	Х	X	С	X	X	X			X	DIOCTYL PHTHALATE	C	X	X	С	X	X	X	E	E	Х
	Χ	X	X	X	X	X				X	DIOXALANE							X			
	Χ	Χ	X	С	X	X				Х	DIOXANE	C	X	X	С	Х	X	Х	E	E	Х
4	С	С	X	С	X	X	X	E	E	X	DIPENTENE	X	X	X	X	С	X	X			С
_	С	X	X	С	Х	X	Х	E	E	X	DIPENTYLAMINE (Diamylamine)	E	С	С	E	G	G	X			G
4	С	X	X	С	Х	X	Х	E	E	X	DIPROPYLAMINEOLAMINE										
4	X	С	С	F	Х	X	X			X	DIPROPYLENE GLYCOL	E	E	E	E	E	E				E
4	Ε	Ε	E	E	E	E				E	DISODIUM PHOSPHATE	E	E	E	E	Ε	E				E
	С	X	X	С	Х	X		F	F	X	DIVINYL BENZENE	X	X	X	X	X	X	X			Х
_	С	X	X	X	X	X	X	E	E	X	DOWELL INHIBITOR										
_	X	Х	X	X	X	X	X			X	DOWFAX 2A1 SOLVENT										
_	X	X	X	X	С	X	X			С	DOWFAX 2A1 TA										
_	С	С	С	С	С	C	E	E	G	С	DOWFAX 6A1 SOLVENT										
4	С	X	X	Х	Х	X	X	E	E	X	DOWFAX 6A1 TA										
4	X	X	X	X	X	X				X	DOWTHERMN, A AND E	X	X	С	X	X	X	Х			Х
$\perp$	X	X	X	Х	X	X				Х	DRY CLEANING FLUIDS	X	X	X	X	С	X	X			С
4	X	Χ	X	X	Х	X	X			X	DUCGKIRIOEBAANE									-	
_	X	Χ	X	X	X	X	Х			X	DURD AW-16,31									-	
+	X	Χ	Χ	Χ	F	X		G	G	F	DURO FR-HD		_		_	_				_	
4	X	Χ	X	Х	С	X		G	G	С	ETHANOIC ACID (Acetic acid)		С		С	С		G	E	E	С
4			_								ETHANOL (Grain alcohol)	E	E	E	E	С	E	E	E	E	E
4	X	С	С	Х	E	X	X	Е	E	E	ETHANOLAMINE	С	С	С	Е	С	С	X			С
+	E	G	F	G	С	G	X			С	ETHERS	X	X	X	X	F	X	X	E	E	F
-	X		X			X	X	_			ETHYL ACETATE	C	X	X	С	X	X	X	E	E	X
-	X	X	X	X	X	X	Х	<u>E</u>	E	X	ETHYL ACETOACETATE	C	X	X	С	X	С	F		-	X
_	G	X	X	G	X	X		E	E	X	ETHYL ACETONE (2-Pentanone)	G	X	X	G	X	X	.,		-	X
_	X	X	X	X	X	F				X	ETHYL ACRYLATE	C	X	X	С	X	X	X			X
_	X	X	X	F	X	X		E	E	X	ETHYL ALCOHOL	E	E	E	E	С	E	E	<u>E</u>	E	<u>E</u>
+	G	X	F	F	C	X	X			C	ETHYL ALDEHYDE	E	Х	F	E	X	C		E	E	X
+	C	E	X	E	X	X	E	_		X	ETHYL ALUMINIUM DICHLORIDE	X	ļ.,-	X	,,	X	X		_	_	X
+	С	С	С	C	C	C	G	E	E	С	ETHYL BENZENE	X	X	X	X	X	X	X	E	E	X
+	E	E	E	E	E	E	Е	E	E	E	ETHYL BROMIDE	X	Х	X	Х	C	C	Х	E	E	C
+	X	X	X	E	X	X	v			X	ETHYL BUTYL ALCOHOL (Ethylbutonol)	E		G E		Х	X E			$\dashv$	X
	E	X	F		G	G	X	<u> </u>		G	ETHYL BUTYL ALCOHOL (Ethylbutanol)	E			<u> </u>		Е				



Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data **COMPOUND COMPOUND** 

Chemical or Material Conveyed	CIIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	T629AA
ETHYL CELLULOSE	C	С	) 0	C	C	C	G	$\widehat{\Xi}$	_ 	C
ETHYL CHLORIDE	E	Х	C	C	E	C	G	E	E	E
	F	X	Х	Х	X	X		E	E	X
ETHYL DICHLORIDE	Г	^	۸_	^	۸_	٨	Х			
ETHYL DIISOBUTYLTHIO-CABARMATE	v	v	v	v	v	v	v	_	_	_
ETHYL ETHER	X	X	C	X	X	X	X	E	E	X
ETHYL FORMATE	C F	C	-	C F	X	X	٨	E	E	X
ETHYL IODIDE	Х	X	X	E	X	^ E	Х			Х
ETHYL OXALATE ETHYL PHTHALATE	X	X	X	F	X	X	٨	E	E	Х
ETHYL SILICATE	E	E	C	E	^_	C	G			E
	G	X	Х	G	X	X	u			X
ETHYL-N-BUTYL KETONE	E	E	^_	E	^_	^ E				E
ETHYL-1-BUTANOL			F	E	C	C	v			
ETHYLAMINE  ETHYLENE CHI ODOLLYDDIN	C	C	C	C	X	C	G			C X
ETHYLENE CHLOROHYDRIN ETHYLENE DIAMINE	E	E	C	-	C	C		_	_	C
	_		-	E C		-	G	E F	E F	
ETHYLENE DIBROMIDE	C	X	X	-	X	X	X	F	-	X
ETHYLENE DICHLORIDE	С	Х	Х	Х	Х	Х	Х	-	F	Х
ETHYLENE GLYCOL MONOETHYL ACETATE	-	.,	_	_	_	.,	.,	_	_	_
ETHYLENE GLYCOL MONOBUTYL ETHER	E	Х	С	E	F	Х	Х	E	E	F
ETHYLENE GLYCOL MONOETHYL ETHER	_	v	v	_		v		Е	Е	С
(Ethoxyethanol)	С	Х	Х	С	С	Х				-
ETHYLENE GLYCOL MONOEHEXIL ETHER	<b>-</b>	_	_	_	_	_	_	_		_
ETHYLENE GLYCOL	E	E	E	E	E	E	E	_E	E	E
ETHYLENE OXIDE	C	X	X	C	X	X	X	E	E	X
FATTY ACIDS	C	С	C	Х	C	X	Х	E	G	C
FERRIC BROMIDE	E		E	_	E	E	_			E
FERRIC CHLORIDE	E	C	C	E	<u>E</u>	E	<u>E</u>		<u>E</u>	<u>E</u>
FERRIC NITRATE	E	E	E	E	E	E	E		E	E
FERRIC SULFATE	E	E	E	E	E	E	E		E	E
FERROUS ACETATE	E	X	E	G	X	X				X
FERROUS CHLORIDE	E	E	E	E	E	E			E	<u>E</u>
FERROUS SULFATE	E	E	E	E	E -	E -	E	_	E	E
FLUOROBORIC ACID	С	E	E	E	E	Е	E	E	E	E
FLUORINE	X	X	X	E	X	X	_	G	G	X
FLUOROSILICIC ACID	E	E	E	E	Е	E	G	E	E	E
FORMALDEHYDE	C	С	С	С	С	С	G	E	E	С
FORMALIN (Formaldehyde)	С	G	С	E	G	С	G	E	E	G
FORMIC ACID	E	С	E	E	С	С	E	E	Е	С
FREON SO2			_		_	_				
FREON 113	X	E	С	X	E	С	G	_	_	E
FREON 12	X	С	E	С	С	X	E	F	G	С
FREON 22	C	E	E	С	X	С	E	F	E	Х
FUEL A (ASTM)	X	С	С	X	E	X				E
FUEL B (ASTM)	X	X	X	X	С	X				С
FUEL OIL	X	С	С	X	E	X	X	E	Ε	E
FURAN (Furfuran)	X	X	X	X	X	X	X	E	E	Х
FURFURAL	C	Х	С	С	Х	X	X	E	E	Х
FURFURAN (Furan)	Х	Х	Х	Х	Х	X	X	Ε	E	Х
FURFURYL ALCOHOL	C	X	X	С	X	X	X	Е	Е	X
GALLIC ACID	C	С	С	С	С	Ε	G	Ε	Е	С
GALLOTANNIC ACID	G	Е	Ε	Е		Ε				
GAS, COAL										Ш
GAS, HIGH OCTANE										Щ
GASOLINE	С	X	С	X	Ε	С	X	E	Ε	Ε

			C	Oi	VIP	<b>O</b> U	JИ	U							ט						
	CIIR	CR	CSM	<b>EPDM</b>	NBR	R	SBR	XLPE	UHMWPE	T629AA	Chemical or Material Conveyed	CIIR	CR	CSM	EPDM	NBR	R	SBR	XLPE	UHMWPE	T629AA
	С	С	С	С	С	С	G	E	E	С	GLACIAL ACRYLIC ACID (Acrylic acid)	X	X	G	X	X	Χ			-	Χ
	Ε	Χ	С	С	E	С	G	E	E	E	GLUCONIC ACID	F	E	G	E	С	Х				С
	F	X	X	X	X	X	X	E	E	X	GLUCOSE	Е	С	E	Ε	Ε	E	E	Е	E	E
											GLYCERINE	Е	E	E	E	E	E	Е	Е	E	E
	Х	Х	X	X	X	X	X	E	E	Х	GLYCEROL	Е	E	E	E	E	E	Е	Е	E	E
	С	С	С	С	X	X	X			X	GLYCOGENIC ACID (Gluconic acid)	F	E	G	E	F	X				F
	F	Χ	X	F	X	X		E	E	X	GLYCOLS	E	E	E	E	E	E	E	E	E	E
	X	Χ	X	E	X	E	X			X	GLYCONIC ACID (Gluconic acid)	F	E	G	E	F	Х				F
	X	Χ	X	F	X	X		E	E	X	GLYCLYL ALCOHOL										
	E	Е	С	E	E	С	G			E	GREASE	X	F	С	X	E	X	X			E
	G	X	X	G	X	X				X	GREEN SULPHATE LIQUOR	E	С	G	E	С	С	G			С
	Ε	Ε	E	Ε	E	E				Ε	HALON 1211										
	С	С	F	E	С	С	X			С	HELIUM	E	Ε	E	E	Ε	E	Ε			E
	С	С	С	С	Х	С	G			X	HEPTALDEHYDE	C	С	X	С	Е	X	X			E
	E	Ε	С	E	С	C	G	E	E	С	HEPTANAL	C	С	X	С	E	X	X			E
	С	X	X	С	X	X	X	F	F	X	HEPTANE	X	С	С	X	E	Х	Х		E	E
	С	X	X	X	X	X	X	F	F	X	HEPTANE CARBOXYLIC ACID										
											HEPTANOIC ACID	X	С	С	X	Е	Х				E
	Ε	Χ	С	Ε	F	X	X	E	E	F	HEPTANONE										
											HEXADECANOIC ACID	G	Х	Х	G	E	E	G	Е	E	E
	С	X	Х	С	С	X		E	E	С	HEXALDEHYDE	C	С	С	С	X	Х	Х	E	E	Х
											HEXANE	X	С	С	X	E	Χ	X	Ε	E	Ε
	E	E	E	E	E	E	E	E	E	E	HEXANOL	C	С	С	С	С	E	E	E	E	C
	С	Х	X	С	X	X	X	E	E	X	HEXENE	X	С	С	Х	С	Х	Х			C
	C	С	С	X	С	X	X	E	G	С	HEXYL ALCOHOL	C	С	C	С	C	E	E	E	E	C
	Ε		E		Ε	E				Ε	HEXYL METHYL KETONE										
	E	С	С	E	E	E	E		E	Ε	(Methyl hexyl ketone)	G	С	Х	G	X	X				Х
	Ε	Ε	E	Ε	Е	E	Ε		E	Ε	HEXYLAMINE	G	G	F	G	F	F				F
	Ε	Ε	Ε	Ε	Ε	E	E		E	Ε	HEXYLENE GLYCOL	Ε	Ε	E	F	C	Ε				С
	Ε	χ	E	G	Х	Х				X	HISTOWAX (Paraffin Wax)	Х		С			X				
	E	E	E	E	E	E			E	E	HYDRAULIC & MOTOR OIL	C	С	С	С	C	Х	Х	Ε	E	С
	Ε	Ε	E	E	E	E	E		E	E	HYDRAZINE	C	С	С	E	С	С	G			С
	C	Ε	E	Ε	Ε	E	E	E	E	Ε	HYDROBROMIC ACID	E	С	E	Ε	X	Е	Χ	Ε	Ε	Х
	Χ	Χ	X	Ε	χ	X		G	G	Χ	HYDROCLORIC ACID	С	С	С	С	C	С	Χ	С	С	С
	Ε	Ε	E	Ε	Ε	E	G	E	E	Ε	HYDROCYANIC ACID	C	С	E	Ε	C	С	G			С
	C	C	С	С	C	С	G	E	E	С	HYDROFLUORIC ACID	C	С	E	С	C	С	X	Ε	E	С
	C	G	С	E	G	C	G	E	E	G	HYDROFLUOSILICIC ACID	E	С	E	E	X	E	G	E	E	Х
	E	С	E	E	С	C	E	E	E	С	HYDROGEN CHLORIDE ANHYDROUS	E	С	E	E	X	Х	Х			Х
											HYDROGEN DIOXIDE (10%)										
	Χ	Ε	С	X	Ε	C	G			Ε	(Hydrogen peroxide)	G	F	С	G	F	G				F
	Χ	С	E	С	С	X	E	F	G	С	HYDROGEN GAS	E	Ε	E	Ε	Ε	С	G	Ε	Ε	E
	C	Ε	E	С	Χ	C	E	F	E	Χ	HYDROGEN PEROXIDE OVER 10%	C	Χ	С	С	X	С	Χ	С	F	Х
	Χ	С	C	X	Ε	Х				Ε	HYDROGEN PEROXIDE 10%	G	F	C	G	F	G	Χ	Ε	Ε	F
	X	χ	X	X	C	X				C	HYDROGEN SULFIDE (WET)	E	E	G	E	X	X	X	Ε	Ε	Х
	χ	С	C	X	Ε	X	X	Ε	E	Ε	HYDROXY BENZENE (Phenol)	C	Χ	С	С	X	С				Х
	χ	Χ	X	X	χ	Х	X	E	E	Χ	HYDROXYISOBUTYRONIRILE										
	C	Χ	С	С	X	X	X	E	Ε	Χ	(Acetone cyanohydrin)	E	G	F	Ε	C	С				С
	χ	χ	X	X	χ	Х	X	Ε	Ε	χ	HYDROXYTOLUENE (Benzyl alcohol)	C	С	C	С	X	Χ	χ			Х
Ī	С	χ	Χ	С	χ	χ	χ	Ε	Ε	X	HYVAR VXL										
	С	С	С	С	С	Ε	G	Ε	Е	С	IMINODI-2-PROPANOL										
	G	Ε	Ε	Ε		Ε					(Diisopropanolamine)	Ε	G	F	Ε	G	G				G
											IMINODIETHANOL (Diethanolamine)	С	G	F	G	С	С	χ			С
											IODINE	С	С	С	С	С	Χ	G	Ε	Ε	С
	С	χ	С	Χ	Ε	С	Χ	Ε	E	Ε	IODINE PENTAFLUORIDE	Χ	Χ	Χ	Χ	Χ	Χ	Χ			Х
_																					



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COMPOUND

COMPOUND

	COMPOUND										
Chemical or	CIIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	<b>JHMWPE</b>	T629AA	
Material Conveyed	_					_	S	<u>×</u>	_		
IODOFORM	X	X	Х	E	E	X			_	E	
ISO-BUTANAL (Isobutyraldehyde)		F		G	Х	X	G	E	E	Х	
ISO-BUTYLAMINE	E	X	F	G	X	F				Х	
ISO-BUTYLBROMIDE	X	Х	Х	Х	Х	X				Х	
ISO-BUTYLCARBINOL (Isoamyl alcohol)	E	E	E	E	Е	Х				E	
ISOCYANATES	G	Х	F	G	С	F		E	E	С	
ISOOCTANE	Х	С	С	Х	Е	Х	Х	Ε	E	E	
ISOPROPYL ACETATE	С	Х	Х	С	Х	Х	Х	Е	E	Х	
ISOPROPYL ALCOHOL	Е	С	E	Е	С	Е	Е	Е	Е	С	
ISOPROPYL ETHER	Х	Х	С	Х	G	χ	Х	Ε	Е	G	
JET FUELS	Х	С	Х	Х	С	χ	Х	Е	Е	С	
JP-4 OIL	X	Х	Х	Х	E	Х	Х	_	_	E	
KEROSENE	X	C	C	Х	E	X	Х	Е	Е	E	
KETONES	G	С	C	E	C	C	E	E	E	C	
LACQUER SOLVENTS	X	Х	Х	Х	Х	Х	_	E	E	Х	
LACTIC ACID - COLD	Ê	Ĉ	E	C	C	Ê	G	G	G	Ĉ	
	_	_		-		_		_	_		
LACTIC ACID - HOT	E	C	E	C	С	E	X	G	G	С	
LARD	C	C	C	C	<u>E</u>	X	X	E	E	E	
LAVENDER OIL	X	X	Х	X	С	X	X			С	
LEAD ACETATE	E	С	X	E	С	E	X	E	E	С	
LEAD NITRATE	E	E	E	E	E	E	E			E	
LEAD SULFATE	E	E	E	E	E	E		E	E	E	
LIME	E	G	G	E	G	E		E	E	G	
LIME BLEACH (Calcium hypochlorite)	E	С	E	E	С	C	E			С	
LIME SULFUR	E	E	E	E	Ε	С	Х	Е	E	Е	
LIMONENE (Dipentene)	Х	Х	Х	Х	С	Х				С	
LINOLEIC ACID	Х	С	Х	Х	С	Х	Х			С	
LINSEED OIL	С	С	С	С	Е	χ	Х	Е	Е	Е	
LIQUID PETROLEUM GAS (LPG)	Х	G	С	Х	Е	Х	Х	Е	Е	Е	
LUBRICATING OIL	Х	C	С	Х	С	Х	χ	E	E	С	
LYE SOLUTIONS (Caustic soda solution)	E	G	E	G	С	E	G			С	
MEK	E	X	Х	E	Х	X	X	E	Е	Х	
MAGNESIUM ACETATE	E	X	E	G	X	X	X	_	-	X	
MAGNESIUM CHLORIDE	E	E	E	E	E	E	E	E	Е	E	
MAGNESIUM HYDRATE	-					_					
(Magnesium hydroxide)	E	С	E	E	С	С	G	Е	E	С	
· · · · · ·	<del>  -</del>									-	
MAGNESIUM HYDROXYDE	E	C	E	E	С	C	G	E	E	С	
MAGNESIUM SULFATE	E	E	E	E	E	C	G	E -	E	E	
MALEIC ACID	X	X	X	С	Х	Х	Х	E	E	Х	
MALEIC ANHYDRIDE	C	X	X	С	X	X	Х			Х	
MALIC ACID	X	С	С	С	E	E	G	С	С	E	
MANGANOUS SULFATE	G	E	E	E	Е	G				E	
MAPP											
MERCURY	E	E	E	E	E	E	E	E	E	E	
MERCURY VAPORS	E	G	E	E	Е	G	E			E	
MESITYL OXIDE	F	χ	χ	С	Χ	Χ	Χ			Χ	
METHALLYL ALCOHOL	Е	Ε	Ε	Ε	Ε	Ε				Е	
METHALLYL CHLORIDE	Х	χ	χ			Х					
METHANE CARBOXYLIC ACID		<u> </u>	<u> </u>								
*see Acetic Acid								Е	Е		
METHANOIC ACID (Formic acid)	Е	Е	Е	Е	G	С	Е	E	E	G	
METHANOL (Methyl alcohol)	C	E	E	E	C	E	E	E	E	C	
METHANOL (Wood alchol)	C	E	E	E	С	E	E	E	E	C	
METHANOL (WOOD AICHOI) METHOXY ETHANOL	E	E	E	E	C	E	_ C	E	E	C	
WEITUAT EITANUL	[	[	[		U					U	

Chemical or	CIIR	~	CSM	EPDM	NBR	~	SBR	XLPE	<b>IMWPE</b>	F629AA
Material Conveyed	5	S	છ	급	뿔	R	SE	×	Η	<b>1</b> 6
METHOXYETHOXY ETHANOL										
METHOXYPROPENYL BENZENE										
METHYL ACETATE	C	С	Х	С	Х	C	χ			X
METHYL ACETOACETATE	C	Х	Х	С	Х	Х	Х			Χ
METHYL ACETONE (Ethyl methyl ketone)	E	Х	Х	Е	Х	Х	Χ	Е	Ε	Χ
METHYL ACETYLENE PROPADIENE										
METHYL ALLYL ALCOHOL										
METHYL ALLYL CHLORIDE										
(Methylallyl chloride)	Х	Х	Х			Х				
METHYL AMYL CARBINOL										
(s-Heptyl alcohol)	G	G	Е	Ε	E	G				Ε
METHYL BENZENE (Toluene)	Х	Х	Х	χ	Х	χ	χ	F	F	χ
METHYL BROMIDE	С	Х	χ	χ	С	χ	Х	F	F	С
METHYL BUTANE (iso-Pentane)	X	Х	Х	Х	E	Х				E
METHYL BUTYL ALCOHOL	<u> </u>									_
METHYL BUTYL KETONE	E	Х	Х	Е	х	Х	Х	Е	Е	Х
METHYL CARBITOL	_			_				_	_	
(Diethylene glycol monomethyl ether)		F		G	F					F
METHYL CELLOSOLVE	С	С	С	C	С	Х	Х	Е	Е	С
METHYL CHLORIDE	C	Х	Х	С	Х	X	X	F	F	Х
METHYL CYANIDE	E	E	G	E	C	G	^	i i	•	C
METHYL ETHYL KETONE	E	Х	X	E	Х	X	Х	E	E	Х
METHYL HEXANOL	E	E	E	E	E	E	^		Е	^ E
METHYL METHACRILATE	X	Х	Х	Х	Х	Х	Х	Е	E	
METHYL METHACKILATE METHYL NORMAL AMYL KETONE	<b>-^</b>	E	X	E	C	X	^			C
	v	_		_	_					
METHYL PROPYL ETHER	X	X	C	X	X	X		-	_	X
METHYL SALYCILATE	C	X	X	C	X	X		E	E	X
METHYL STYRENE ( p-Vinyltoluene)	X	X	X	X	X	X				X
METHYL SULFIDE (Dimethyl sulfide)	F	Х	Х	Х	X	Х				Х
METHYL TERTIARY METYL ETHER										
METHYL 1-2, 4-PENTANEDIOL	-									
METHYL-ISO-AMYL-KETONE	G		Х			Х				
METHYL-L-PROPANOL										
METHYL-2-BUTANOL										
METHYL-2-BUTANONE	_	١.,			١.,	١.,				.,
(Methyl isopropyl ketone)	С	Х	Х	С	X	Х	Х			X
METHYL-2-HEXANONE										
(Methyl isoamyl ketone)	G		X			X				
METHYL-2-PENTANOL										
(Methyl amyl alcohol)	E	G	E	Е	G	G				G
METHYL-2-PENTANONE										
(Methyl isobutyl ketone)	C	X	X	С	X	X				X
METHYL-2-PROPEN-L-OL										
METHYL-3-PENTEN-1-ONE										
METHYL-4-ISOPROPYL BENZENE (Cymene)	Х	Х	Х	Χ	Х	Χ				X
METHYL AMYL ACETATE			Х			Х				
METHYL AMYL ALCOHOL	Е	G	Е	Е	G	G				G
METHYLCYCLOHEXANE	Х	χ	С	χ	Х	χ				Χ
METHYLENE BROMIDE	Х	χ	Х	Х	С	Х		Е	Е	С
METHYLENE CHLORIDE	Х	χ	χ	С	Х	χ	χ	F	F	Χ
METHYLETHYL KETONE	E	χ	Х	E	Х	Х	χ			X
METHYL HEXYL KETONE	G	C	Х	G	Х	χ	Ė	Е		X
METHYL ISOBUTYL CARBINOL		Ť		Ĺ	Ė					
(Methyl amyl alcohol)	E	χ	E	С	Х	G				Χ



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COMPOUND

COMPOUND

				_					VPE	≴
Chemical or	CIIR	~	CSM	EPDM	NBR	~	SBR	XLPE	UHMWPE	T629AA
Material Conveyed		CR				R				
METHYLISOBUTYL KETONE	С	X	X	С	X	X	X	E	E	Χ
METHYLISOPROPYL KETONE	C	X	X	С	X	X	Х			Х
METHYLLACTONITRILE	_		_	_	.,	_				.,
(Acetone cyanohydrin)	E	G	F	E	Х	F				Х
M-ETHYLPHENOL			_							_
METHYLPROPYL CARBINOL	E		E		E	E		_		E
METHYLPROPYL KETONE	G	X	X	G	X	X		E	E	X
MIL-A-6091	E	E	E	E	С	E				C
MIL-C-4339	X	X	X	X	E	X				E
MIL-C-7024	X	С	X	X	E	X	_			E
MIL-E-9500	E	E C	E	E	E	E	E			E
MIL-F-16884	X		C	X	<u>E</u>	X	X			E E
MIL-F-17111	X	C	C	X	E	Х	X			E
MIL-F-25558 (RJ-1) MIL-G-10924	X	C	C	X	E	Х	Х			E
MIL-G-25013	X	C	C	E	E	C	Χ			E
MIL-G-25537	X	C	C	Х	E	Х	X			E
MIL-G-3545	X	C	C	X	E	X	^			Ē
MIL-G-5572	X	X	X	X	E	X	Х			E
MIL-G-7711	X	X	X	X	E	X	χ			E
MIL-H-05606 (HFA)	X	C	C	C	E	X	^			E
MIL-H-13910	G	E	G	E	E	E	Е			E
MIL-H-19457	E	X	Х	C	X	X	Х			X
MIL-H-22251	E	C	C	E	C		G			C
MIL-H-27601	X	C	С	Х	G	Х				G
MIL-H-5606 (J43)	Х	C	C	С	E	Х				E
MIL-H-6083	Х	E	C	Х	E	C	Χ			E
MIL-H-8446 (MLO-8515)	χ	E	C	Х	G	X	χ			G
MIL-J-5161	Х	Χ	χ	χ	С	Χ	Х			С
MIL-J-5624 (JP-3,JP-4,JP-5)	Х	Χ	χ	χ	Е	Χ	χ			Е
MIL-L-15016	χ		С			χ	χ			
MIL-L-17331	Х		G			Χ	Χ			
MIL-L-2104	Х	С	С	χ	Е	Χ				Е
MIL-L-21260	Х	С	С	Χ	Ε	Χ	Χ			Ε
MIL-L-23699	Х	С	С	Χ	С	X	Χ			С
MIL-L-25681	E	С	С	Ε	С	C	G			С
MIL-L-3150	Х	С	С	χ	Ε	X	Χ			Ε
MIL-L-4343							Χ			
MIL-L-6082							Χ			
MIL-L-6085	Х	Χ	X	X	С	X	Χ			С
MIL-L-7808	Х	X	X	X	G	X	Χ			G
MIL-L-7870	X	С	Χ	Х	Ε	X	Χ			Ε
MIL-L-9000	Х	С	С	X	E	X	Χ			E
MIL-L-9236	X	X	X	X	С	X	Χ			С
MIL-P-27402	E	С	С	E	С		G			С
MIL-R-25567 (RP-1)										
MIL-R-25576 (RP-1)	X		С			X				
MIL-S-3136 TYPE 1 FUEL	X	С	С	X	E	X	X			Е
MIL-S-3136 TYPE 2 FUEL	X	X	X	Х	С	X	X			С
MIL-S-3136 TYPE 3 FUEL	X	X	X	X	G	X	X			G
MIL-S-3136 TYPE 4 OIL, LOWSWELL	X	X	С	X	E	X	X			E
MIL-S-3136 TYPE 5 OIL, MEDSWELL	X	G	G	X	E	X	X			E
MIL-S-3136 TYPE 6 OIL, HI SWELL	X	X	C	X	E	X	X			E
MIL-S-81087	E	Е	Е	E	E	Ε	E			Е

	COMPOUND										
									ž	_	
Observational and			_	Σ				ш	UHMWPE	T629AA	
Chemical or	CIIR	క్ర	CSM	EPDM	NBR	NR	SBR	XLPE	H	629	
Material Conveyed										- 1	
MINERAL OIL	C	C	C	X	E	X	X	E	E	E	
MINERAL SPIRITS	X	С	G	X	C	X	X			C	
MOBILE HF A	X	С	X	X	E	X	Х			E	
MOLTEN SULFUR	G	E	E	E	G	G				G	
MONO-CHLOROACETIC ACID	G	С	G	G	X	С	Х	E	Е	X	
MONOBUTYL ETHER	С	С	С	С	G	X	Х			G	
MONOCHLOROBENZENE	X	Х	Х	X	Х	X	X	F	F	X	
MONOCHLORODIFLUOROMETHANE	_		_			_	_	_	_	.,	
(Chlorodifluoromethane)	C	С	E	С	Х	С	E	E	E	X	
MONOETHANOL AMINE	C	G	С	С	G	С	G			G	
MONOETHYL AMINE	С	С	F	E	С	С	F			С	
MORPHOLINE	С	X	Х	С	Х	X				X	
MOTOR OIL, 40W	X	С	С	X	E	X				E	
MTBE (Methyl tert-butyl ether)	G	X			Х					X	
MURIATIC ACID (Hydrogen chloride)	С	С	С	F	С	С	Х			C	
N-BUTANAL (Butyraldehyde)	С	Χ	Х	С	Х	X	Χ	Ε	Ε	X	
N-BUTYLAMINE	С	Х	Х	С	С	X	Χ			С	
N-BUTYLBENZENE	Х	Х	Х	χ	Х	Χ				Χ	
N-BUTYLBROMIDE	Х	Х	Х	χ	Х	Χ				χ	
N-BUTYLBUTYRATE	Е	χ	Х	Ε	Х	Χ	χ			Χ	
N-BUTYLCARBINOL (Pentyl alcohol)	Е	Е	Е	Е	Е	Е		Е	Е	Ε	
N-NONYL ALCOHOL	E	Е	Е	Е	Е	Е				Е	
N-OCTANE	х	G	Х	Х	С	Х	χ	Е	Е	С	
N-SERV (75% XYLENE)	<u> </u>										
NA-K											
NAPHTHA	Х	Х	С	Х	С	Х	Х	Е	Е	С	
NAPHTHALENE	X	X	Х	X	Х	X	X	E	E	Х	
NAPHTHENIC ACID	X	Х	Х	Х	C	X	Х	_	_	C	
NATURAL GAS	X	E	E	X	E	C	F	Е	Е	E	
NEOHEXANE	X	G	Х	X	E	Х	-	_	_	E	
NEON GAS	E	E	E	E	E	E	E			E	
NEU-TRI	X		Х	-	Х	X	-			X	
NICKEL ACETATE	E	G	X	E	C	Ē	Х			C	
NICKEL CHLORIDE	E	C	E	E	E	E	E	Е	E	E	
NICKEL NITRATE	E	E	E	E	E	E		E	E	E	
NICKEL SULFATE	E	E	E	E	E	C	G	E	E	E	
NIETYLENE	E	_ <u>_</u>				U	u			Е	
	Х	v	Х	v	v	v				v	
NITRIC ACID, CONC (16N)		X		X	X	X	v	v	· ·	X	
NITRIC ACID, RED FUMING	X	X	X	X	X	X	X	X	X	X	
NITRIC ACID, 10%	E	G	Е	E	X	X	Х	E	E	X	
NITRIC ACID, 13N		X			X	X				X	
NITRIC ACID, 13N +5%		X	-	_	X	X	· ·	_	_	X	
NITRIC ACID, 20%	G	X	E	E	X	X	X	E	E	X	
NITRIC ACID, 30%	F	X	E	F	X	X	X	G	G	X	
NITRIC ACID, 30% - 70%	F	X	C	X	X	X	X	F	F	X	
NITRILOTRIETHANOL (Triethanolamine)	E	C	C	E	F	C	G	E -	E -	F	
NITROBENZENE	F	X	X	С	X	X	X	E	E	X	
NITROETHANE	G	С	G	С	X	G	G			X	
NITROGEN	E	E	E	E	E	E	E	E	E	E	
NITROMETHANE	G	С	С	С	X	G	С			X	
NITROUS OXIDE GAS		G		E	E					Ε	
NONANOIC ACID	E		X		E	X		E	E	Ε	
NONANOL (Nonyl alcohol)	E	E	E	E	E	E				Ε	
NUTO H											

 $FOR \ APPLICATIONS \ INVOLVING \ INDUSTRIAL \ ACID \ CHEMICALS \ AND \ ALCOHOLS, \ PLEASE \ REFER \ TO \ T5050G \ AND \ T5090E \ CHEMICAL \ HOSES.$ 



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COMPOUND

COMPOUND

		1	,		VII	<u> </u>	J14	ַ	1		
				_					WPE	≴	
Chemical or	~		Σ	EPDM	~		~	占	Σ	629A	
Material Conveyed	CIR	S	CSM	굡	NBR	뚪	SBR	XLPE	当	<u>1</u> 92	
NYVAC LIGHT								. ,			-
OCTANOIC ACID (n-Caprylic acid)	F		G		F	F				F	
OCTANOL (Octyl alcohol)	С	С	С	С	С	С	Е			С	
OCTYL ACETATE	E	С	E	G	С	С	χ	Е	Е	С	
OCTYL ALCOHOL	С	С	С	С	С	С	Е			С	
OCTYL ALDEHYDE	F		Х		χ	Х		Е	Е	Χ	
OCTYL AMINE	E	G	F	G	F	F				F	
OCTYL CARBINOL	E	E	Е	E	Е	Ε				Ε	
OCTYLENE GLYCOL	Е	Е	Е	Е	Е	Е				Е	
OIL-PETROLEUM							Х	G	G		
OLEIC ACID	Х	F	С	Х	G	χ	Х	Е	Е	G	
OLEUM (Fuming sulfuric acid)	Х	χ	χ	χ	χ	Х	χ	χ	Х	χ	
OLIVE OIL	С	G	С	G	Е	Х	Х			Е	
ORTHO-DICHLOROBENZENE	X	Х	Х	Х	Х	Х	χ			χ	
ORTHO-DICHLOROBENZOL											
(o-Dichlorobenzene)	X	Х	Х	Х	Х	Х	Х			х	
ORTHOXYLENE	Х	χ	χ	χ	χ	χ	χ			χ	
OXALIC ACID	E	G	Е	Е	G	С	G	Е	Е	G	
OXYDIETHANOL	T-					_			_		
OZONE	G	F	G	Е	Х	Х	χ	Е	Е	χ	
P-CYMENE	X	Х	Х	Х	χ	Х	-	_	_	χ	
PAINT THINNER	X	χ	χ	Х	χ	Х	χ			χ	
PALMITIC ACID	C	G	C	C	E	C	G	Е	Е	E	
PAPERMAKERS ALUM	Ť		_	Ť	_	Ť		_	_	_	
PARA-DICHLOROBENZENE	Х	χ	Х	Х	Х	Х	Х			χ	
PARAFFIN WAX	X	G	E	Х	E	X				Ē	
PARALDEHYDE	E	G	X	E	C	F				C	
PARAXYLENE (p-Dimethylbenzene)	X	Х	Х	Х	Х	X				Х	
PCB	<u> </u>	-		,							
PELARGONIC ALCOHOL (Nonyl alcohol)	Е	Е	Е	Е	Е	E		Е	Е	Е	
PENTACHLOROETHANE	X	Х	X	-	Х	X		_	-	X	
PENTADIONE	<u> </u>	-									
PENTAMETHYLENE (Cyclopentane)	Х	С	Х	Х	G	Х				G	
PENTANE	X	E	C	Х	E	X	Х	Е	Е	E	
PENTANOL (Pentyl alcohol)	E	-	E		_	E		E	E	_	
PENTANONE	G	Х	Х	G	Х	X		_	-	χ	
PENTASOL (Pentachlorophenol)	E	G	E	G	C	X	G	Е	Е	C	
PENTYL ACETATE (Amyl acetate)	X	Х	X	C	Х	C	Х	E	E	Х	
PENTYL ALCOHOL (n-Amyl alcohol)	C	C	E	E	C	C	G	E	E	C	
PENTYL BROMIDE (Amyl bromide)	Х	Х	X	C	Х	Х	u	-	-	Х	
PENTYL CHLORIDE (Amyl chloride)	X	Х	X	Х	Х	X	Х	E	Е	χ	
PENTYL ETHER (Amyl ether)	X	X	F	Х	C	X		_	-	C	
PENTYLAMINE (Amylamine)	G	F	F	Х	F	F				F	
PERCHLORIC ACID	C	E	C	G	Х	c	Х	E	Е	X	
PERCHLOROETHYLENE	"	_	-	u	^	_	^	_	_		
(Tetrachloroethylene)	X	Х	х	Х	F	Х	Х	Е	Е	F	
PERCHLOROMETHANE	<u> </u>		<u> </u>		Ė	<u> </u>		Ė	-	•	
(Carbon tetrachloride)	X	х	х	х	х	х				х	
PETROLEUM CRUDE	X	G	E	Х	G	χ	Х	Е	E	G	
PETROLEUM CRUDE PETROLEUM ETHER	X	X	C	Х	E	Х	Х			E	
PETROLEUM OILS	X	G	G	X	X	X	X	E	E	Х	
PHENBO	^	u	u	^	^		^			^	
	С	v	r	v	v	С	v	Е	E	v	
PHENOL SUI FONIC ACID	G	C	C	X E	C	C	X	-		C	
PHENOLSULFONIC ACID	լս	U	L		L	L	_ ^			U	

Chamical as				Σ				ш	IWPE	F629AA
Chemical or	CIIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	Ŧ	9
Material Conveyed	_	_					S		<u> </u>	_
PHENYLAMINE (Aniline)	E	Х	C	С	Х	X		E	E	Х
PHENYLBROMIDE (Bromobenzene)	X		Х			Х				
PHENYLBUTANE	٠.,	.,	.,	.,	.,			_	_	
PHENYLCHLORIDE (Chlorobenzene)	X	X	X	X	X	X		E	E	X
PHENYLETHYLENE (Styrene)	X	Х	Х	Х	Х	Х	Х			Х
PHENYLMETHANE (Toluene)	X	X	X	X	Х	Х		E	E	Х
PHENYLMETHANOL (Benzyl alcohol)	E	С	С	С	X	X				Х
PHENYLMETHYL ACETATE (Acetic acid)										
PHOSPHATE ESTERS	E	X	Х	E	Х	X	Х			Х
PHOSPHORIC ACID 10%	E	E	E	E	E	E	E	E	E	E
PHOSFORIC ACID 10% - 85%	E	G	E	Е	G	G	G	Е	E	G
PHOSPHORUS TRICHLORIDE	E	Х	Х	Ε	Х	Χ	Х	Ε	E	Х
PICRIC ACID, H20 SOLUTION	G	E	E	E	E	С	G			E
PINE OIL	X	X	Х	X	E	X	Х	E	E	E
PINENE	X	С	Х	Χ	С	Χ	Х			С
POLY CHLORINATED BIPHENOL										
POLYETHYLENE GLYCOL E-400	E	G	Е	Ε	С	Ε				С
POLYOL ESTER		χ		χ	G					G
POLYPROPYLENE GLYCOL	Е	Ε	Е		Е	Ε		Ε	Ε	Е
POTASSIUM ACETATE	Е	Е	Е	Е	С	Е	χ			С
POTASSIUM BISULFATE	Е	Е	Е	Е	Е	Ε	G			Е
POTASSIUM BISULFITE	Е	Е	Е	Е	Е	Е	G			Е
POTASSIUM CARBONATE	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е
POTASSIUM CHLORIDE	Е	Е	G	Е	Е	Е	Е	Е	Е	Е
POTASSIUM CHROMATE	E	E	F	E	G	G	G		_	G
POTASSIUM CYANIDE	E	E	E	E	E	E	E	Е	Е	E
POTASSIUM DICHROMATE	E	F	G	F	E	C	G	E	E	E
POTASSIUM HYDRATE	-	-	u	-	-		u	-	_	_
(Potassium hydroxide)	E		E			С	G	Е	Е	
POTASSIUM HYDROXYDE	E	G	E	Е	G	С	G	E	E	G
POTASSIUM NITRATE	E	E	E	E	E	E	E	E	E	E
POTASSIUM PERMANGANATE, 5%	E	E	G	E	F	Ē	G	E	E	F
POTASSIUM SILICATE	E	E	E	E	E	E	E			E
	E	E	E	E	E	C	G	E	E	E
POTASSIUM SULFATE	E	E	E	E			_			
POTASSIUM SULFIDE	+=-		_		С	G	G	_	_	C
POTASSIUM SULFITE	E	E	C	E	E	C	G	E	E	E
PRESTONE ANTIFREEZE	E	E	E	E	E	E	E			<u>E</u>
PRODUCER GAS	X	G	C	X	E	X	X	_	_	E
PROPANE	X	E	C	X	E	X	X	E	<u>E</u>	E -
PROPANEDIOL	E	G	E	E	<u>E</u>	E	E	E	<u>E</u>	<u>E</u>
PROPANETRIOL	E	E	E	E	E	E	E	E	E	E
PROPANOL	E	E	E	E	E	E	E	E	E	E
PROPANOLAMINE										
PROPANONE	E	X	С	E	Х	С	G	Е	Ε	Х
PROPENOL	E		E			E				
PROPANEDIAMINE	E		F		G	G				G
PROPENE NITRILE	X	Х			X	G		E	E	Х
PROPENYL ALCOHOL (Allyl Alcohol)	E	E	E	E	E	E		E	E	E
PROPENYL ANISOLE	X		Х		Х	X		Ε	Ε	Χ
PROPIONIC ACID	E	С	G	E	С	Ε	χ			C
PROPIONITRILE	E	С		С	Ε	Е				Ε
PROPYL ACETATE	С	χ	χ	С	χ	Χ	χ	Ε	Ε	χ
PROPYL ALCOHOL	Е	Ε	Е	Ε	Ε	Ε	Ε	Ε	Ε	Ε
PROPYL ALDEHYDE	G	χ	Χ	G	Χ	F				χ

 $FOR \ APPLICATIONS \ INVOLVING \ INDUSTRIAL \ ACID \ CHEMICALS \ AND \ ALCOHOLS, \ PLEASE \ REFER \ TO \ T5050G \ AND \ T5090E \ CHEMICAL \ HOSES.$ 



Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]: E - Excellent; G - Good; F - Fair; C - Conditional; I - Insufficient Data; X - Not Recommended; Blank - No Data **COMPOUND COMPOUND** 

Chemical or	_		5	N N	~		~	Į,	<b>NWPE</b>	629AA
Material Conveyed	CIR	8	CSM	EPDM	NBR	R	SBR	XLPE	Ŧ	162
PROPYL BENZENE	X	Х	X	_	-	<u>X</u>	0,	^	_	
PROPYL CHLORIDE	F	F	X	F	Х	Х				χ
PROPYL ETHER	Ė	•								
PROPYL NITRATE	С	Х	Х	С	Х	Х	Х			χ
PROPYLENE	Х	Х	X	Х	X	Х	Х			X
PROPYLENE DIAMINE	E		F		G	G				G
PROPYLENE GLYCOL	E	Е	E	Е	E	E	Е	Е	Е	E
PYDRAUL, 'E' SERIES	C	Х	X	C	X	X	Х	_	_	X
PYDRAULIC 'C'	X	Х	X	Х	Х	Х	Х			X
QUINTOLUBRIC 822 SERIES	<u> </u>									
RED OIL	Х	F	С	F	E	Х	Х	Е	Е	E
REFRIGERANT 11 (Freon 11)	X		E			Х	Х	E	E	
REFRIGERANT 12 (Freon 12)	X		E			Х	E	E	E	
REFRIGERANT 22 (Freon 22)	X		E			C	E	E	E	
RESORCINOL	E	Α	G	G	С	E	G		_	С
SAE NO. 10 OIL	X	C	X	Х	Ē	X	Х			E
SAL AMMONIAC	E	E	E	E	E	E	E	Е	Е	E
SEA WATER	E	E	E	E	E	E	E	E	E	E
SEWAGE	G	C	E	G	E	G	G	E	E	E
SILICATE ESTERS	X	E	G	Х	G	Х	C		_	G
SILICATE OF SODA (Sodium silicate)	E	E	E	E	E	E	E			E
SILICONE GREASE	E	E	E	E	E	E	E	Е	Е	E
SILICONE OIL	E	E	E	E	E	E	E	E	E	E
SILVER NITRATE	E	E	E	E	C	E	G	E	E	C
SKYDROL 500 TYPE 2	G	Х	X	E	X	X	Х		_	X
SKYDROL 500B	G	Х	X	E	X	Х	Х			X
SKYDROL 500C	G	X	X	E	X	X	X			X
SKYDROL 7000 TYPE 2	E	Х	X	E	X	E	Х			X
SOAP SOLUTIONS	E	G	E	E	E	F	Х	Е	Е	E
SODA ASH	E	E	E	E	E	Ē	Х	E	E	E
SODA LIME	E	G	G	E	G	E				G
SODA NITER	E	G	E	E	Ē	G	G	Е	Е	E
SODIUM ACETATE	F	C	G	E	G	F	X	E	E	G
SODIUM ALUMINATE	E	E	E	E	E	Ē	G	_	_	E
SODIUM BICARBONATE	E	E	E	E	E	E	E	Е	Е	E
SODIUM BISULFATE	E	E	E	E	E	E	G	E	E	E
SODIUM BISULFITE	E	E	E	E	E	E	G	E	E	E
SODIUM BORATE	E	E	E	E	E	E	E	E	E	E
SODIUM CARBONATE	E	E	E	E	E	E	E	E	E	E
SODIUM CHLORIDE	E	E	E	E	E	E	E	E	E	E
SODIUM CYANIDE	E	E	E	E	E	E	E	E	E	E
SODIUM DICHROMATE	E	F	G	E	E	X	G			E
SODIUM HYDRATE (Sodium hydroxide)	E	G	C	E	X	E	G	Е	Е	X
SODIUM HYDROCHLORITE	G	F	E	G	F	F	G			F
SODIUM HYDROXIDE (Caustic soda)	E	G	C	E	Χ	E	G	Е	Е	χ
SODIUM HYPOCHLORITE	C	C	G	E	C	X	F	E	E	C
SODIUM METAPHOSPHATE	G	E	C	E	Ē	E	E	E	E	E
SODIUM NITRATE	E	G	E	E	C	G	G	E	E	C
SODIUM PERBORATE	E	G	E	E	С	G	G		-	C
SODIUM PEROXIDE	E	G	G	E	С	С	G	E	Е	C
SODIUM PHOSPHATE	E	G	E	E	E	E	E	E	E	E
SODIUM SILICATE	E	E	E	E	E	E	E	E	E	E
SODIUM SULFATE	E	E	E	E	E	С	G	E	E	E
SODIUM SULFIDE	E	E	E	E	E	G	G	E	E	E
555.0m 60E IDE	-	_	-	-	-	<u> </u>		-	-	-

			C	,UI	VIL	U	אוע	ט						C	, Oi	VIL	U	ואוע	ט		
	CIIR	CR	CSM	EPDM	NBR	NB	SBR	XLPE	UHMWPE	T629AA	Chemical or Material Conveyed	CIIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	T629AA
$\dashv$	X	X	X	_	_	<u> </u>	-		_	-	SODIUM SULFITE	E	E	E	<u>-</u>	<u> </u>	G	G	E	E	E
$\dashv$	F	F	X	F	Х	X				χ	SODIUM THIOSULFATE	E	E	E	E	С	G	u	E	E	C
$\dashv$	_	-	^	-	^	_^				^	SOYBEAN OIL	G	E	G	C	E	X	Х		-	E
$\dashv$	С	Х	Х	С	Х	Х	Х			Х	STANNIC CHLORIDE	E	G	E	E	E	Ê	E	Е	Е	E
$\dashv$	X	X	X	Х	_	X	X			X		E	E	E	E	E	E	Е	Е		E
$\dashv$		^		Α.	X		Α.				STANNIC SULFIDE	_						-	-	-	
$\dashv$	E	-	F	_	G	G	-	_	-	G	STANNOUS CHLORIDE	E	E	E	G	E	E	E	E	Е	E
$\dashv$	E	E	E	E	E	E	E	E	E	E	STANNOUS SULFIDE	E	E	E	E	E	E	· ·	v	- V	E
$\dashv$	C	X	X	C	X	X	X			X	STEAM, BELOW 350 DEG F	G	X	С	E	X	С	X	X	X	X
$\dashv$	Х	Χ	X	Х	Х	Х	Х			Х	STEARIC ACID	C	G	G	G	G	C	G	E	E	G
$\dashv$									_		STODDARD SOLVENT	X	G	X	X	E	X	X	E	E	E
$\dashv$	X	F	С	F	E	X	X	E	E	Е	STYRENE	X	X	X	X	X	X	Х	F	F	X
_	Χ		E			Х	X	E	E		SULFAMIC ACID	E	G	E	E	С	G				С
4	Χ		E			X	E	E	E		SULFUR	E	E	E	E	X	X	X	Ε	Е	X
_	X		E			C	E	E	E		SULFUR CHLORIDE	X	E		E	С	X	X			С
_	E	Α	G	G	С	E	G			С	SULFUR DIOXIDE	C	С	С	E	X	С	G		G	Х
_	X	С	X	X	E	X	X			E	SULFUR TRIOXIDE, DRY	G	Х	X	E	X	С	X	Х	Х	Х
$\perp$	Ε	Ε	E	E	E	E	E	E	E	E	SULFURIC ACID 60% (200°F)	E	Х	G	E	G	X	X	Χ	Х	G
	Ε	Е	E	E	E	E	E	E	E	E	SULFURIC ACID, CONC.	Х	Х	Χ	Х	Х	Χ	Х	F	F	Х
	G	С	E	G	E	G	G	E	E	E	SULFURIC ACID, FUMING	Х	Х	Χ	Х	Х	Χ	Х	Х	Х	Х
	χ	Ε	G	X	G	X	C			G	SULFURIC ACID, 25%	G	С	Ε	Ε	C	Ε	F	Ε	E	С
	Ε	Ε	Ε	Ε	Ε	E	Ε			Ε	SULFURIC ACID, 25%-50%	G	χ	G	Ε	C	G	F	Ε	Е	С
	Ε	Е	Ε	E	E	E	E	E	E	Ε	SULFURIC ACID, 50%-96%	C	Х	С	Χ	Χ	C	Х	G	G	Х
	Е	Е	Ε	Е	E	E	Е	E	Е	Е	SULFUROUS ACID, 10%	E	С	Ε	Ε	Ε	G	G	Е	Е	Ε
	Е	Е	Ε	Е	С	Е	G	E	Е	С	SULFUROUS ACID, 10%-75%	E	С	Е	Ε	F	G	G	Ε	Е	F
	G	Х	χ	Е	χ	Х	Х			χ	SUTAN										
	G	χ	Χ	Е	Х	Х	χ			Х	T-BUTYL AMINE	С	χ	Χ	С	С	χ				С
T	G	χ	Χ	Е	χ	Х	χ			Х	TALL OIL	Х	С	F	Χ	Е	χ	χ			Е
	Е	χ	χ	Е	χ	Е	χ			χ	TALLOW	Х	G	F	Е	Ε	χ	χ	Е	Е	Е
	Е	G	Е	Е	Е	F	χ	Е	Е	Е	TANNIC ACID	Е	Е	Ε	Е	Ε	Ε	G	Е	Е	Е
	Ε	E	Е	Е	Е	Е	χ	Е	Е	Ε	TAR	Х	χ		χ	Χ	χ	χ	χ	F	Х
	Е	G	G	Е	G	Е				G	TAR BITUMINOUS	Х	С	Χ	χ	G	χ	χ			G
$\neg$	E	G	E	E	E	G	G	Е	Е	E	TARTARIC ACID	G	E	E	G	E	E	G	Е	Е	E
$\exists$	F	С	G	E	G	F	Х	E	E	G	TELLONE 2						С				
	E	E	E	E	E	E	G			E	TERTIARY BUTYL ALCOHOL	С	С	С	С	С	C	G			С
T	Е	Е	Е	Е	Е	Е	E	Е	Е	Е	TERPINEOL	С		Χ			Χ	χ			
1	E	E	E	E	E	E	G	E	E	E	TERTIARY BUTYL AMINE	C	χ	Х	С	С	χ				С
$\exists$	E	E	E	E	E	E	G	E	E	E	TERTIARY BUTYL MERCAPTAN	X	Х	Х	Х	X	χ	χ			Х
$\exists$	E	Ē	E	E	E	E	E	E	E	E	TEST ENTRY	<u> </u>									
$\exists$	E	E	E	E	E	E	E	E	E	E	TEST ENTRY 1										
$\dashv$	E	E	E	E	E	E	E	E	E	E	TETRACHLOROBENZENE	Х	Х	Х	Х	Х	χ				Х
_	E	E	E	E	E	E	E	E	E	E	TETRACHLOROETHANE	X	Х	X	X	X	X	χ	F	F	X
$\dashv$	E	F	G	E	E	X	G		-	E	TETRACHLOROETHYLENE	X	X	X	X	C	X	χ	F	F	C
$\dashv$	E	G	C	E	Х	E	G	E	Е	Х	TETRACHLOROMETHANE	X	Χ	X	X	Х	X	^	E	E	Х
$\dashv$	G	F	E	G	F	F	G			F	TETRACHLORONAPHTHALENE	X	Χ	X	X	X	X		E	Ė	X
$\dashv$	E	G	C	E	Х	E	G	E	Е	Х	TETRACHLONONAPHTHALENE TETRACHLONONAPHTHALENE	E	E	_^ E	^_	^ E				-	E
$\dashv$				_			_		_			_									
$\dashv$	C	C E	G	E	C	X	F	E	E	С	TETRAETHYLORTHOSILICATE TETRALYDROEURAN (THE)	E	E	v	E	E	X	v			E
-	G	_	С	E	E	<del>                                     </del>	E	E	E	E	TETRAHYDROFURAN (THF)	C	X	X	X	X	X	Х	-		X
4	E	G	E	E	C	G	G	E	E	C	TIN CHLORIDE	E	C	C	E	E	E	\ <u></u>	Е	Е	E
-	E	G	E	E	C	G	G	_	_	С	TITANIUM TETRACHLORIDE	X	C	X	X	C	X	X			C
4	E	G	G	E	C	C	G	<u>E</u>	E	C	TOLUENE	X	X	X	X	X	X	Х	E -	E	X
4	E	G	E	E	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	E	E	TOLUIDINE	X	X	X	X	C	X		E -	F	C
_	E	E	E	E -	E	E	E	<u>E</u>	E	E	TOLUOL (Toluene)	X	X	X	X	X	X	X	E	E	X
_	E	E	E	E -	E -	C	G	<u>E</u>	E	E	TRANSFORMER OIL	X	C	C	X	C	X	Х	Ε	Е	C
	Ε	Е	E	E	E	G	G	E	E	E	TRANSMISSION 'A' OIL	X	С	С	X	E	X			Ш	E



Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]:

E – Excellent; G – Good; F – Fair; C – Conditional; I – Insufficient Data; X – Not Recommended; Blank – No Data

COMPOUND

COMPOUND

				_					WE	≴
Chemical or	~		Σ	EPDM	~		~	XLPE	M	629AA
Material Conveyed	CIIR	8	SSI	굡	NBR	뚪	SBR	×	H	<u>9</u>
TRI(2-HYDROXYETHYL) AMINE										
(Triethanolamine)	E	С	С	Ε	G	С				G
TRIBUTYL PHOSPHATE	G		Х	G	F	С	Х			F
TRIBUTYLAMINE	E		F	-	G	G				G
TRICHLOROACETIC ACID	C	С	χ	С	C	C	χ			C
TRICHLOROBENZENE	Х	Х	χ	Χ	С	Х	χ	F	F	С
TRICHLOROETHANE	Х	Х	Х	Х	Х	Х	χ			χ
TRICHLOROETHYLENE	Х	Х	Х	Х	Х	Х	χ	F	F	Х
TRICHLOROMETHANE	Х	Х	Х	Х	Х	Х	χ	F	F	Х
TRICHLOROTOLUENE (Benzotrichloride)		χ	χ	Е	χ	χ				Х
TRICRESYL PHOSPHATE	Е	Х	Х	Е	Х	Х	χ			Х
TRIETHANOLAMINE	E	С	С	E	С	C	G	Е	Е	C
TRIETHYLAMINE	G	G	E	E	E	G	Х			E
TRIETHYLENE GLYCOL	E	E	Е	Е	С	E		Е	Е	С
TRIHYDROXYBENZOIC ACID	C	С	G	С	С	E				C
TRIMETHYL PENTANE (MIXED)	X	G	С	Х	E	X	Х			E
TRIMETHYL PENTENE										
TRIMETHYLAMINE	Е	Е	Е	С	С	Е				С
TRISODIUM PHOSPHATE	E	E	E	E	E	E	Е	Е	Е	E
TRITOYL PHOSPHATE	E	С	С	E	Х	Х	Х			Х
TUNG OIL	C	C	C	Х	E	Х	Х	Е	Е	E
TUNG OIL (CHINA OIL)	C	C	C	Х	E	X	Х	E	E	E
TURPENTINE	X	X	X	Х	E	X	Х	E	F	E
UNSYMETRICAL DIMETHYL	1									
HYDRAZINE (UDMH)	E	С	E	E	С	E	χ			С
UNDECYL ALCOHOL	Е	Е	Е	Е	Е	Е				Е
UREA (Carbammide)	E	G	E	E	G	E		Е	Е	G
URETHANE FORMULATIONS	T -					_			_	
URIC ACID	E	Е	Е	Е	С	Е				С
VARNISH	X	X	х	X	G	X	Х	Е	Е	G
VEGETABLE OILS	C	C	G	F	E	X	Х	E	E	E
VERSILUBE F44	E	Ē	E	E	E	E	E	_	_	E
VERSILUBE F55	E	E	E	X	E	E	E			E
VINEGAR (Acetic acid)	E	G	E	E	G	G	G	Е	Е	G
VINEGAR ACID (Vinegar)	E		E	-		G		E	E	
VINYL ACETATE	E	С	F	G	С	X	Х	E	E	С
VINYL BENZENE	X	Х	Х	X	C	X	Х	F	F	C
VINYL CHLORIDE	X	Х	Х	C	Х	X		E	E	Х
VINYL CYANIDE	X	X	G	Х	Х	G	F	E	E	χ
VINYL ETHER (Divinyl ether)	X		G		G	X	•	_	-	G
VINYL STYRENE	^		u		<u> </u>					
VINYL TOLUENE	Х	Х	Х	Х	Х	х				Х
VINYL TRICHLORIDE (Trichloroethane)	X	X	Х	Х	Х	X				χ
VITAL, 4300,5310	<del>  ^</del>	_^								
VM & NAPHTHA	Х	F	Х	Х	G	Х	Х			G
WATER	E	G	E	E	E	E	Ĉ	E	E	E
WATER, BOILING	E	G	E	E	G	E	_	-	-	G
WATER, SODA	+-	u	-	-	u	-		E	E	-
WEMCO C	Х	С	Х	Х	Е	Х	Х	-		E
WHISKEY	E	E	E	E	E	E	E	E	E	E
	<del>                                     </del>		C		E			E	E	E
WHITE OIL WHITE DINE OIL	X	G X	Х	X	C	X	X			C
WHITE PINE OIL WINES	E	E	E	E	E	E	E	E	E	E
WOOD ALCOHOL (Methanol)	C	E	E	E	C	E	E	E E	E	C
WOOD ALCOHOL (WEUIGHOI)	U	<u> </u>	[		U			[		U

	l	ĺ	ı		 			_	ш	
				5					UHMWP	T629AA
Chemical or	CIIR	œ	CSM	EPDM	NBR	R	SBR	XLPE	H	953
Material Conveyed	_	8	_							-
WOOD OIL	C	C	C	X	E	X	X	E	E	E
XENON	E	E	E	E	E	E	E			E
XYLENE, XYLON	X	X	X	X	X	X	X	F	F	X
XYLIDINE	G	X	X	G	C	X	X			С
ZEOLITES	E	E	E	E	E	E	E			E
ZINC ACETATE	E	C		E	G	E	X			G
ZINC CARBONATE	E	E	E	E	E	E				Е
ZINC CHLORIDE	E	E	E	E	E	E	E	E	E	E
ZINC CHROMATE	E	E	G	E	C	E				С
ZINC SULFATE	E	E	E	E	E	E	G	E	E	E
O-AMINOTOLUENE (o-Methylaniline)	С	Х	Х	С	Х	Χ				Χ
1 UNDECANOL	E	Ε	Ε	Ε	E	Ε	Ε	Ε	G	Ε
1-AMINO-2-PROPANOL										
(Isopropanolamine)	E	E	F	E	С	G				C
1-AMINOBUTANE (Butylamine)	С	Х	Х	С	С	Χ	χ			С
1-AMINOPENTANE (Amylamine)	G	С	F	Х	F	F				F
1-BROMO-2-METHYL PROPANE										
(Isobutyl bromide)	X	x	Х	х	ΙxΙ	χ				х
1-BROMO-3-METHYL BUTANE										
(Isoamyl bromide)	X	Х	х	χ	Х	Χ				Х
1-BROMOBUTANE (n-Butyl bromide)	Х	Х	Х	Х	Х	Х				χ
1-CHLORO-2-METHYL PROPANE	^	^	^	^	^	^				^
(Isobutyl chloride)	X	х	х	х	X	Х				χ
1-CHLORO-3-METHYL BUTANE	_		_	^						
(Isoamyl chloride)	X	x	x	х	x	Х				х
· · · · · · · · · · · · · · · · · · ·								_	_	
1-DECANOL	X	X	C	X	E	X		E	E	E
1-HENDECANOL (Undecanol)	E	E	E	E	E	E		-		E
1,4-DIOXANE	С	Х	Х	С	Х	Х		E		Х
2(2AMINOETHYLAMINO) ETHANOL	_		_			•				
(N-(Aminoethyl)ethanolamine)	E		G			G				
2(2ETHOXYETHOXY) ETHANOL		_				_				
(Carbitol)	C	С	С	С	С	С	G			C
2(2ETHOXYETHOXY) ETHYL ACETATE										
(Carbitol acetate)	G	Х	G	Х	Х	Х	Х			Х
2-AMINOETHANOL (Ethanolamine)	C	С	С	E	С	С	F			С
2-CHLORO-1-HYDROXY-BENZENE										
( o-Chlorphenol)	X	Х	X	Х	X	Х				Х
2-CHLOROPHENOL	X	X	X	X	X	X	X			Х
2-CHLOROPROPANE	Х	X	Х	Х	Х	X	X			Х
2-ETHOXYETHANOL	С	Х	Х	С	С	Χ	χ	E	Ε	С
2-ETHOXYETHYL ACETATE	С	Х	Х	G	Х	С		E	Ε	Χ
2-ETHYL(BUTYRALDEHYDE)	G		χ		Х	X				Х
2-ETHYL-1-HEXANOL	С	С	С	С	С	G	G	Е	Ε	C
2-ETHYLHEXANOIC ACID										
(Ethylhexoic acid)	F		G		F	F				F
2-ETHYLHEXYL ACETATE	Е		G		Х	Χ		С	С	Х
2-OCTANONE (Methyl hexyl ketone)	G	С		G	Х	Х				Х
2,4-DI-SECPENTYLPHENOL	Ė									
3-BROMOPROPENE (Allyl bromide)	Х	Х	Х	Х	Х	Х				χ
3-CHLORO-2-METHYL PROPANE	<u> </u>	<u> </u>		<u> </u>						
3-CHLOROPROPENE	С	Х	Х	Х	С	Х	Е	Е	G	С
3-COAL OIL	X	G	F	X	E	X	<u> </u>	_	_	E
4-HYDROXY-4-METHYL-2-PENTANONE	_	u	<u> </u>	^		٨				-
(Diacetone alcohol)	E	F	С	E	x	Х	Х	E	Е	х
(טומטפנטוופ מוטטווטו)	ļ-E-	r	U	-	_^	^	_^_	-		^



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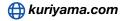
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