



INDUSTRIAL HOSE

VELON INDUSTRIAL INC.



ENTERPRISE PROFILE

Company Profile

Founded in 2009, Velon Industrial Inc. is a professional manufacturer and exporter of industrial rubber hoses with customized solutions. We develop and produce a full range of hoses, including Air, Water, Oil, Food, Pharmacy, and Chemical.

Thanks to innovative production technology and strict quality control, the company has both mandrel line and extrusion line and approved international certifications including ISO9001, FDA, CE, etc.

Creating value for customers, keeping open and inclusive, passion for research— these define Velon.



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Multipurpose SBR



TYPE WAS

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
WAS300-0019	3/16"	4.8	12	20.7	300	60	900	0.13	110
WAS300-0025	1/4"	6.4	13	20.7	300	60	900	0.14	100
WAS300-0031	5/16"	7.9	15	20.7	300	60	900	0.20	100
WAS300-0038	3/8"	9.5	17	20.7	300	60	900	0.23	100
WAS300-0050	1/2"	12.7	21	20.7	300	60	900	0.34	100
WAS300-0063	5/8"	15.9	26	20.7	300	60	900	0.40	60
WAS300-0075	3/4"	19.1	29	20.7	300	60	900	0.58	60
WAS300-0088	7/8"	22.2	32	20.7	300	60	900	0.70	60
WAS300-0100	1"	25.4	35	20.7	300	60	900	0.80	60
WAS300-0125	1-1/4"	32	44	20.7	300	60	900	1.21	40
WAS300-0150	1-1/2"	38	53	20.7	300	60	900	1.40	40
WAS300-0200	2"	51	66	20.7	300	60	900	1.75	40

Applications

For general industrial transferring of air, water, and oil. Not suitable for chemicals or abrasion medium.

Technical Description

Tube: Synthetic rubber, black, smooth

Reinforcement: High-strength synthetic cord

Cover: Abrasion-resistant synthetic rubber. Black, red, and blue colors are available

Temperature Range: -20°C to +70°C



Multipurpose EPDM



TYPE WAS EPDM

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
WAS EPDM-0019	3/16"	4.8	12	20.7	300	60	900	0.13	100
WAS EPDM-0025	1/4"	6.4	13	20.7	300	60	900	0.14	100
WAS EPDM-0031	5/16"	7.9	15	20.7	300	60	900	0.20	100
WAS EPDM-0038	3/8"	9.5	17	20.7	300	60	900	0.23	100
WAS EPDM-0050	1/2"	12.7	21	20.7	300	60	900	0.34	100
WAS EPDM-0063	5/8"	15.9	26	20.7	300	60	900	0.40	60
WAS EPDM-0075	3/4"	19.1	29	20.7	300	60	900	0.58	60
WAS EPDM-0088	7/8"	22.2	32	20.7	300	60	900	0.70	60
WAS EPDM-0100	1"	25.4	35	20.7	300	60	900	0.80	60
WAS EPDM-0125	1-1/4"	32	44	20.7	300	60	900	1.21	40
WAS EPDM-0150	1-1/2"	38	53	20.7	300	60	900	1.40	40
WAS EPDM-0200	2"	51	66	20.7	300	60	900	1.75	40

Applications

For general industrial transferring of air, water, oil, not suitable for chemicals or abrasion medium.

Technical Description

Tube: EPDM synthetic rubber, black, smooth, insulation and non-conductive

Reinforcement: High-strength synthetic cord

Cover: Abrasion-resistant EPDM synthetic rubber, the colors black, red, blue, green, yellow are available

Temperature Range: -40°C to +100°C



Multipurpose Water



TYPE WAE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Length (m)
				(bar)	(psi)	(bar)	(psi)	
WAE300-0050	1/2"	12.7	21	20.7	300	80	1200	100
WAE300-0075	3/4"	19.1	29	20.7	300	80	1200	100
WAE300-0100	1"	25.4	36	20.7	300	80	1200	100
WAE300-0125	1-1/4"	32	44	20.7	300	80	1200	100
WAE300-0150	1-1/2"	38	51	20.7	300	80	1200	60
WAE300-0200	2"	51	64	20.7	300	80	1200	60
WAE300-0250	2-1/2"	63.5	77	20.7	300	80	1200	60
WAE300-0300	3"	76	93	20.7	300	80	1200	60
WAE300-0350	3-1/2"	89	107	20.7	300	80	1200	60
WAE300-0400	4"	102	121	20.7	300	80	1200	60
WAE300-0500	5"	127	146	20.7	300	80	1200	60
WAE300-0600	6"	152	171	20.7	300	80	1200	60

Applications

Air and water delivery hose, which is for a wide range of industries, including construction and agricultural.

Technical Description

Tube: Synthetic rubber. black, smooth

Reinforcement: High-strength synthetic cord

Cover: Abrasion-resistant synthetic rubber. Black, red, yellow, green, blue colors are available

Temperature Range: -30°C to + 70°C



Jackhammer



TYPE SINON PRO

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
SINON PRO-0075	3/4"	19	29	40	600	160	2400	110	0.55	60
SINON PRO-0100	1"	25	35	40	600	160	2400	135	0.69	60
SINON PRO-0125	1-1/4"	32	43	40	600	160	2400	170	0.95	40
SINON PRO-0150	1-1/2"	38	50	40	600	160	2400	190	1.58	40
SINON PRO-0200	2"	51	64	40	600	160	2400	255	2.24	40
SINON PRO-0300	3"	76	93	40	600	160	2400	380	4.13	40
SINON PRO-0400	4"	102	121	40	600	160	2400	510	5.64	40

Applications

For heavy-duty compressed air with oil mist transfer and other general purposes. Can be used under harsh conditions.

Technical Description

Tube: Black smooth nitrile rubber. Oil, seawater, heat, light acid, and alkali resistance

Reinforcement: High-strength steel wire

Cover: Nitrile rubber. Wear, ozone, aging, oil and heat resistance

Temperature Range: -30°C to +100°C



Non Conductive



TYPE SATURN 300

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
SATURN 300-0019	3/16"	4.8	12	20	300	80	1200	29	0.10	100
SATURN 300-0025	1/4"	6.4	13	20	300	80	1200	36	0.24	100
SATURN 300-0031	5/16"	7.9	15	20	300	80	1200	48	0.25	100
SATURN 300-0038	3/8"	9.5	18	20	300	80	1200	60	0.27	100
SATURN 300-0050	1/2"	12.7	22	20	300	80	1200	75	0.38	100
SATURN 300-0063	5/8"	15.9	26	20	300	80	1200	96	0.43	60
SATURN 300-0075	3/4"	19.1	30	20	300	80	1200	114	0.63	60
SATURN 300-0100	1"	25.4	38	20	300	80	1200	150	0.96	60

TYPE SATURN 250

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
SATURN 250-0125	1-1/4"	32	45	17	250	68	1000	190	1.24	40
SATURN 250-0150	1-1/2"	38	53	17	250	68	1000	228	1.44	40
SATURN 250-0200	2"	51	67	14	200	56	800	400	1.50	40

Applications

Multi-purpose hose used in steel mills, shipyards, foundries, auto plants, and construction industries. For conveying a wide range of media including air, water, oil, and other petroleum products.

Technical Description

Tube: NBR

Reinforcement: Polyester braid

Cover: NBR

Temperature Range: -20°C to +70°C

Insulation Class: The resistance per inch is greater than 1 megohm at 1000 volts DC

Special Features: Red, yellow, blue, and green covers allow for color coding where cross-contamination of media can affect the safeoperation of plant equipment. UV stabilized, oil mist resistant. Non-conductive.



Push-Lok



TYPE MERCURY

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
MERCURY-0025	1/4"	6.4	13	24.1	349.5	68.0	986.0	65	0.13	100
MERCURY-0038	3/8"	9.5	17	24.1	349.5	68.0	986.0	75	0.16	100
MERCURY-0050	1/2"	12.7	21	21.0	304.5	68.0	986.0	130	0.27	100
MERCURY-0063	5/8"	15.9	25	21.0	304.5	68.0	986.0	150	0.28	60
MERCURY-0075	3/4"	19.1	29	21.0	304.5	68.0	986.0	180	0.36	60
MERCURY-0100	1"	25.4	35	13.8	200.1	48.0	696.0	250	0.55	60

Applications

Low-pressure applications, like air/water delivery in the paper industry. Suitable for pneumatic, petroleum-based hydraulic fluid, lubricating oils (max +70°C), and anti-freeze solutions. Diesel fuel-approved only when coupled with HY Series fittings.

Technical Description

Tube: Synthetic rubber

Reinforcement: One layer of fiber braid

Cover: High-performance synthetic rubber, MSHA approved. Black, other colors are available for customized.

Temperature range:

Air: max 70°C

Water: max +85°C

Oil: -40°C to +125°C



Water SD



TYPE VOLGA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
VOLGA-0075	3/4"	19	31	20.7	300	82.8	1200	0.7	40
VOLGA-0100	1"	25	37	20.7	300	82.8	1200	0.9	40
VOLGA-0125	1-1/4"	32	44	20.7	300	82.8	1200	1.1	40
VOLGA-0150	1-1/2"	38	50	20.7	300	82.8	1200	1.3	40
VOLGA-0200	2"	51	63	20.7	300	82.8	1200	1.9	40
VOLGA-0250	2-1/2"	63.5	76	20.7	300	82.8	1200	2.4	40
VOLGA-0300	3"	76	92	20.7	300	82.8	1200	3.1	40
VOLGA-0350	3-1/2"	89	106	20.7	300	82.8	1200	3.8	40
VOLGA-0400	4"	102	120	20.7	300	82.8	1200	4.3	40
VOLGA-0500	5"	127	147	20.7	300	82.8	1200	5.8	40
VOLGA-0600	6"	152	172	20.7	300	82.8	1200	8.2	40
VOLGA-0800	8"	203	227	20.7	300	82.8	1200	12.2	20
VOLGA-1000	10"	254	278	13.8	200	55.2	800	-	20
VOLGA-1200	12"	305	334	13.8	200	55.2	800	-	20

Applications

Suitable for suction and discharge of domestic water, industrial water, sewage, slurry, liquid fertilizer, etc.

Technical Description

Tube: Synthetic rubber, black, smooth

Reinforcement: High strength synthetic cord and helix wire

Cover: Abrasion-resistant synthetic rubber, black

Temperature Range: - 30°C to + 70°C



Water SD EPDM



TYPE MEKONG

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
MEKONG-0075	3/4"	19	31	20.7	300	82.8	1200	0.7	40
MEKONG-0100	1"	25	37	20.7	300	82.8	1200	0.9	40
MEKONG-0125	1-1/4"	32	44	20.7	300	82.8	1200	1.1	40
MEKONG-0150	1-1/2"	38	50	20.7	300	82.8	1200	1.3	40
MEKONG-0200	2"	51	63	20.7	300	82.8	1200	1.9	40
MEKONG-0250	2-1/2"	63.5	76	20.7	300	82.8	1200	2.4	40
MEKONG-0300	3"	76	92	20.7	300	82.8	1200	3.1	40
MEKONG-0350	3-1/2"	89	106	20.7	300	82.8	1200	3.8	40
MEKONG-0400	4"	102	120	20.7	300	82.8	1200	4.3	40
MEKONG-0500	5"	127	147	20.7	300	82.8	1200	5.8	40
MEKONG-0600	6"	152	172	20.7	300	82.8	1200	8.2	40
MEKONG-0800	8"	203	227	20.7	300	82.8	1200	12.2	20
MEKONG-1000	10"	254	278	13.8	200	55.2	800	-	20
MEKONG-1200	12"	305	334	13.8	200	55.2	800	-	20

Applications

Hard wall hose that is suitable for industrial water or cooling water with temperature not higher than 120°C.

Technical Description

Tube: Black EPDM rubber. Aging, heat, weather, and wear resistance

Reinforcement: High-tension textile fabric or cord, helix steel wire

Cover: Black fabric impression surface. EPDM rubber, anti-aging, heat and wear resistance

Temperature Range: -20°C to +120°C



Abrasive Water SD



TYPE CONGO

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
CONGO-0075	3/4"	19	31	16	48	0.9	76	0.48	40
CONGO-0100	1"	25	37	16	48	0.9	100	0.67	40
CONGO-0125	1-1/4"	32	44	16	48	0.9	128	0.84	40
CONGO-0150	1-1/2"	38	50	16	48	0.9	152	1.06	40
CONGO-0200	2"	51	64	16	48	0.9	204	1.49	40
CONGO-0250	2-1/2"	63.5	78	16	48	0.9	254	2.23	40
CONGO-0300	3"	76	91	16	48	0.9	304	2.71	40
CONGO-0400	4"	102	118	16	48	0.9	408	3.79	40
CONGO-0500	5"	127	145	16	48	0.9	508	6.04	40
CONGO-0600	6"	152	172	16	48	0.9	760	8.48	40
CONGO-0800	8"	203	229	16	48	0.9	1015	14.00	20
CONGO-1000	10"	254	284	16	48	0.9	1270	19.53	20

Applications

High-quality suction hose. Hose special formula makes its inner tube wear-resistant and anti-static. Suitable for domestic water, industrial water, sewage, mud and liquid fertilizer transfer in industrial, agricultural and construction applications.

Technical Description

Tube: EPDM, black, smooth, abrasion resistant, conductive ($R < 1\text{M}\Omega/\text{m}$)

Reinforcement: High-tensile textile cord, helix steel wire

Cover: EPDM, black, smooth with cloth impression, abrasion, weather and ozone resistant

Temperature Range: -40°C to $+120^{\circ}\text{C}$



Abrasive Water SD Supflex



TYPE CONGO SUPFLEX

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P. (bar)	MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)				
CONGO SUPFLEX-0075	3/4"	19	29	16	48	0.9	19	0.48	40
CONGO SUPFLEX-0100	1"	25	35	16	48	0.9	25	0.67	40
CONGO SUPFLEX-0125	1-1/4"	32	42	16	48	0.9	32	0.84	40
CONGO SUPFLEX-0150	1-1/2"	38	49	16	48	0.9	38	1.06	40
CONGO SUPFLEX-0200	2"	51	62	16	48	0.9	51	1.49	40
CONGO SUPFLEX-0250	2-1/2"	63.5	77	16	48	0.9	64	2.23	40
CONGO SUPFLEX-0300	3"	76	90	16	48	0.9	76	2.71	40
CONGO SUPFLEX-0400	4"	102	117	16	48	0.9	102	3.79	40
CONGO SUPFLEX-0500	5"	127	145	16	48	0.9	127	6.04	40
CONGO SUPFLEX-0600	6"	152	172	16	48	0.9	152	8.48	40
CONGO SUPFLEX-0800	8"	203	229	16	48	0.9	203	14.00	20
CONGO SUPFLEX-1000	10"	254	284	16	48	0.9	254	19.53	20

Applications

High-quality suction water hose, excellent flexible. Hose special formula makes its inner tube wear-resistant and anti-static. Suitable for transfer domestic water, industrial water, sewage, mud and liquid fertilizer in industrial, agricultural and construction applications.

Technical Description

Tube: EPDM rubber, black, smooth, abrasion resistant, conductive ($R < 1M\Omega/m$)

Reinforcement: High-tensile textile cord, helix steel wire

Cover: EPDM rubber, black, corrugated. Abrasion, weather and ozone resistant

Temperature Range: -40°C to +120°C



Carbon Free



TYPE NILE 250

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
NILE 250-0050	1/2"	13	22	17	250	51	750	0.45	60
NILE 250-0075	3/4"	19	31	17	250	51	750	0.75	60
NILE 250-0100	1"	25	38	17	250	51	750	0.96	60
NILE 250-0125	1-1/4"	32	45	17	250	51	750	1.10	60
NILE 250-0150	1-1/2"	38	53	17	250	51	750	1.60	60

TYPE NILE 200

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
NILE 200-0200	2"	51	66	14	200	42	600	2.00	60
NILE 200-0250	2-1/2"	63.5	81	14	200	42	600	2.80	60
NILE 200-0300	3"	76	94	14	200	42	600	3.50	60
NILE 200-0400	4"	102	124	14	200	42	600	8.40	60

Applications

Used for electric furnace to convey cooling water at Max.6000V,20uAh

Technical Description

Tube: Light color, non-conductive EPDM rubber, heat resistance

Reinforcement: High tension textile fabric or cord

Cover: Green or yellow non-conductive synthetic EPDM rubber, aging resistance

Temperature Range: -40°C to +100°C



Mold Water Delivery



VELON®

KWA

WP 220 PSI



TYPE KWA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Length
				(bar)	(psi)	(bar)	(psi)	(m)
KWA-0031	5/16"	8.0	16.0	15	220	45	660	100
KWA-0038	3/8"	9.5	18.0	15	220	45	660	100
KWA-0050	1/2"	12.7	23.0	15	220	45	660	100
KWA-0075	3/4"	19.1	31.0	15	220	45	660	100
KWA-0100	1"	25.4	35.0	15	220	45	660	100

Applications

Specifically designed for coolants in plastic injection molds, and discharge of thermal hot water in general industries.

Technical Description

Tube: White EPDM rubber. Heat and aging resistance

Reinforcement: High strength synthetic fiber

Cover: Smooth EPDM rubber with needle hole. Red, black, and blue colors are available

Temperature Range: -40°C to +150°C



Oil Delivery



TYPE BAKU

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
BAKU-0025	1/4"	6.4	13.0	20	300	60	900	30	0.14	100
BAKU-0031	5/16"	7.9	15.0	20	300	60	900	35	0.17	100
BAKU-0038	3/8"	9.5	17.0	20	300	60	900	38	0.19	100
BAKU-0050	1/2"	12.7	22.0	20	300	60	900	45	0.28	100
BAKU-0063	5/8"	15.9	26.0	20	300	60	900	55	0.35	100
BAKU-0075	3/4"	19.1	30.0	20	300	60	900	58	0.43	100
BAKU-0100	1"	25.4	37.0	20	300	60	900	60	0.62	100

Applications

Special compound to resist petroleum products with aromatic content < 50%. For high-pressure transfer of petroleum products and low-pressure hydraulic drives and oil return. Also for handling light or heavy petroleum derivatives, chemicals, and anti-freeze agents, oil charged compressed air, industrial alkaline, and saltwater.

Advantages

Excellent resistance to ageing, atmospheric conditions and ozone
Excellent resistance to pressure
Static conductivity assured by the tube and the cover

Technical Description

Tube: Black NBR rubber. Smooth, oil resistant
Reinforcement: Synthetic textile
Cover: Oil and weather resistant. Black, smooth
Temperature Range: -30°C to +100°C
Electrical Properties: Conductive tube and cover. $R < 10^6 \Omega/m$



Fire Prevention Oil SD



TYPE BAKU FP

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
BAKU FP-0600	6"	152	190	10	150	30	600	0.9	900	13	40
BAKU FP-0800	8"	203	244	10	150	30	600	0.9	1300	23	40
BAKU FP-1000	10"	254	300	10	150	30	600	0.9	1500	28	20
BAKU FP-1200	12"	305	357	10	150	30	600	0.9	1700	34	20
BAKU FP-1400	14"	355	411	10	150	30	600	0.9	2200	43	20
BAKU FP-1600	16"	405	461	10	150	30	600	0.9	2500	48	20

Applications

Suitable for fuel oil, gasoline, diesel with aromatic content up to 50%. Also can be applied for seawater, fresh water, mud, air, and other general purposes.

Technical Description

Tube: Black, nitrile rubber. Oil, seawater, high-temperature, and acid & alkali resistance

Reinforcement: High-tension textile fabric or cord, helix steel wire, anti-static copper wire

Fire Shield Layer: Glass fiber cloth

Cover: Red, chloroprene rubber. Fire, wear, ozone, aging, and oil resistance

Temperature Range: -30°C to + 100°C

Standards

Fire resistance testing according to ISO 15541 at 800°C * 30min.



oil SD



TYPE PLUTO 150

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PLUTO 150-0075	3/4"	19	30	10	150	30	450	0.9	90	0.8	40
PLUTO 150-0100	1"	25	36	10	150	30	450	0.9	100	1.0	40
PLUTO 150-0125	1-1/4"	32	43	10	150	30	450	0.9	130	1.2	40
PLUTO 150-0150	1-1/2"	38	49	10	150	30	450	0.9	150	1.4	40
PLUTO 150-0200	2"	51	63	10	150	30	450	0.9	300	1.9	40
PLUTO 150-0250	2-1/2"	63.5	76	10	150	30	450	0.9	350	2.4	40
PLUTO 150-0300	3"	76	89	10	150	30	450	0.9	400	2.9	40
PLUTO 150-0350	3-1/2"	89	102	10	150	30	450	0.9	500	3.3	40
PLUTO 150-0400	4"	102	117	10	150	30	450	0.9	550	4.4	40
PLUTO 150-0500	5"	127	143	10	150	30	450	0.9	650	5.8	40
PLUTO 150-0600	6"	152	168	10	150	30	450	0.9	800	7.3	40
PLUTO 150-0800	8"	203	228	10	150	30	450	0.9	1000	13.2	40
PLUTO 150-1000	10"	254	281	10	150	30	450	0.9	1150	18.4	20
PLUTO 150-1200	12"	305	335	10	150	30	450	0.9	1250	25.2	20
PLUTO 150-1400	14"	355	388	10	150	30	450	0.9	1400	35.4	20

TYPE PLUTO 300

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PLUTO 300-0075	3/4"	19	30	20.7	300	60	900	0.9	90	0.8	40
PLUTO 300-0100	1"	25	36	20.7	300	60	900	0.9	100	1.0	40
PLUTO 300-0125	1-1/4"	32	43	20.7	300	60	900	0.9	130	1.2	40
PLUTO 300-0150	1-1/2"	38	49	20.7	300	60	900	0.9	150	1.4	40
PLUTO 300-0200	2"	51	63	20.7	300	60	900	0.9	300	1.9	40
PLUTO 300-0250	2-1/2"	63.5	76	20.7	300	60	900	0.9	350	2.4	40
PLUTO 300-0300	3"	76	89	20.7	300	60	900	0.9	400	3.1	40
PLUTO 300-0350	3-1/2"	89	103	20.7	300	60	900	0.9	500	3.9	40
PLUTO 300-0400	4"	102	117	20.7	300	60	900	0.9	550	4.5	40
PLUTO 300-0500	5"	127	145	20.7	300	60	900	0.9	650	7.1	40
PLUTO 300-0600	6"	152	171	20.7	300	60	900	0.9	800	9.4	40
PLUTO 300-0800	8"	203	229	20.7	300	60	900	0.9	1000	14.9	20
PLUTO 300-1000	10"	254	286	20.7	300	60	900	0.9	1200	23.7	20

Applications

Hard wall hose suitable for petroleum products like fuel oil, gasoline, diesel with aromatic content up to 50%, also suitable for sea water, freshwater, mud, air, and other general purpose mineral oils. Hose can withstand vacuum pressure to -0.9 bar.

Technical Description

Tube: Black synthetic rubber, oil resistance, heat resistance

Reinforcement: High-tension textile fabric or cord, helix steel wire. Copper wire for anti-static by request

Cover: Black fabric impression cover. Synthetic rubber, oil, aging, and heat resistance

Temperature Range: -20°C to + 80°C



OIL SD SUPFLEX



TYPE PLUTO SUPFLEX

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PLUTO SUPFLEX-0075	3/4"	19	31	17	250	68	1000	0.9	40	0.65	40
PLUTO SUPFLEX-0100	1"	25	37	17	250	68	1000	0.9	50	0.81	40
PLUTO SUPFLEX-0150	1-1/2"	38	51	17	250	68	1000	0.9	80	1.08	40
PLUTO SUPFLEX-0200	2"	51	64	17	250	68	1000	0.9	100	1.43	40
PLUTO SUPFLEX-0250	2-1/2"	63.5	78	17	250	68	1000	0.9	130	2.10	40
PLUTO SUPFLEX-0300	3"	76	91	17	250	68	1000	0.9	150	2.51	40
PLUTO SUPFLEX-0400	4"	102	120	17	250	68	1000	0.9	200	3.61	40

Applications

Supflex hose is suitable for application in small space and corner. hose with properties of light weight and excellent oil resistance.

Technical Description

Tube: Black nitrile synthetic rubber with oil resistance grade A

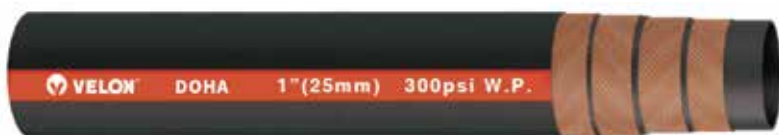
Reinforcement: High-tension textile fabric or cord, helix steel wire

Cover: Black synthetic rubber, aging resistance, ozone resistance

Temperature Range: -40°C to +90°C



Aircraft Refueling



TYPE DOHA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
DOHA-0075	3/4"	19	30	20.7	300	80	1200	0.5	90	0.5	40
DOHA-0100	1"	25	36	20.7	300	80	1200	0.5	115	0.7	40
DOHA-0125	1-1/4"	32	46	20.7	300	80	1200	0.5	140	1.1	40
DOHA-0150	1-1/2"	38	52	20.7	300	80	1200	0.5	180	1.3	40
DOHA-0200	2"	51	67	20.7	300	80	1200	0.5	215	1.8	40
DOHA-0250	2-1/2"	63.5	81	20.7	300	80	1200	0.5	230	2.5	40
DOHA-0300	3"	76	95	20.7	300	80	1200	0.5	280	3	40
DOHA-0400	4"	102	126	20.7	300	80	1200	0.5	350	5.1	40

Applications

Hard wall hose designed for ground fueling and suction/discharge operations of aircraft, suitable for conveying petroleum products with automatic contents up to 50%.

Technical Description

Tube: Black nitrile rubber. Oil resistance, conductive, aging resistance

Cover: Black NBR and rubber/plastic polymer. Anti-aging, UV, wear, flame resistance

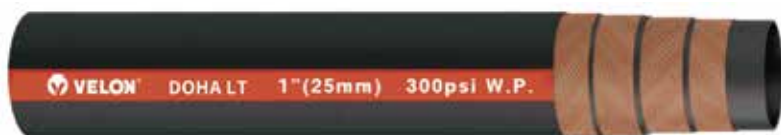
Temperature Range: -30°C to +70°C

Standard

GB10543, ISO1825



Aircraft Refueling Low Temp



TYPE DOHA LT

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
DOHA LT-0075	3/4"	19	30	20	300	80	1200	0.5	90	0.5	40
DOHA LT-0100	1"	25	36	20	300	80	1200	0.5	115	0.7	40
DOHA LT-0125	1-1/4"	32	46	20	300	80	1200	0.5	140	1.1	40
DOHA LT-0150	1-1/2"	38	52	20	300	80	1200	0.5	180	1.3	40
DOHA LT-0200	2"	51	67	20	300	80	1200	0.5	215	1.8	40
DOHA LT-0250	2-1/2"	63.5	81	20	300	80	1200	0.5	230	2.5	40
DOHA LT-0300	3"	76	94.5	20	300	80	1200	0.5	280	3.0	40
DOHA LT-0400	4"	102	126	20	300	80	1200	0.5	350	5.1	40

Applications

Hard wall hose designed for ground fueling and suction/discharge operations of aircraft, suitable for convey petroleum products with aromatic contents up to 50%. Suitable for low temperature environment.

Technical Description

Tube: Black nitrile rubber. Oil resistance, conductive, aging resistance

Reinforcement: High tension textile fabric, helix steel wire

Cover: Black NBR and rubber/plastic polymer, anti-aging, UV resistance, wear resistance, flame resistance.

Temperature Range: -55°C to +70°C

Standards

GB10543, ISO 1825



NBR Food Delivery



TYPE CERES DE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
CERES DE-0050	1/2"	13	24	10	150	30	450	/	/	40
CERES DE-0075	3/4"	19	31	10	150	30	450	/	/	40
CERES DE-0100	1"	25	37	10	150	30	450	150	0.65	40
CERES DE-0125	1-1/4"	32	44	10	150	30	450	192	0.76	40
CERES DE-0150	1-1/2"	38	50	10	150	30	450	228	1.07	40
CERES DE-0200	2"	51	64	10	150	30	450	306	1.71	40
CERES DE-0250	2-1/2"	63.5	78	10	150	30	450	381	2.08	40
CERES DE-0300	3"	76	91	10	150	30	450	456	2.93	40
CERES DE-0400	4"	102	118	10	150	30	450	612	3.60	40
CERES DE-0500	5"	127	146	10	150	30	450	762	5.82	40
CERES DE-0600	6"	152	172	10	150	30	450	912	6.75	40

Applications

Hard wall hose for delivery liquid foodstuffs, such as milk, beer, vegetable oil, edible oil, grease, etc. Widely used for liquid food tankers, food processing, and filling plants. It also can be used as ventilation line (not recommended for compressor lines) of tank cars to transfer liquid foodstuffs with a temperature up to 120°C. The inner tube is food-grade, smooth, taste-free, and odorless.

Advantages

The white and smooth food-grade tube can effectively inhibit the growth of bacteria. Very flexible, anti-twist, wear-resistant, anti-fouling. Suitable for steam and chemical sterilizing no more than 130 °C.

Technical Description

Tube: Food-grade white NBR rubber, smooth, oil resistant. 100% phthalates free

Reinforcement: High-tension synthetic textile

Cover: Blue NBR rubber, fabric impression. Abrasion, aging, and wear resistance

Temperature Range : -30°C to + 100°C (steam cleaning: temperature no more than 130°C and lasting time no more than 20min)

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



NBR Food SD



TYPE CERES

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
CERES-0050	1/2"	13	24	10	150	30	450	/	/	40
CERES-0075	3/4"	19	31	10	150	30	450	/	/	40
CERES-0100	1"	25	37	10	150	30	450	80	0.70	40
CERES-0125	1-1/4"	32	44	10	150	30	450	100	0.82	40
CERES-0150	1-1/2"	38	50	10	150	30	450	115	1.14	40
CERES-0200	2"	51	64	10	150	30	450	150	1.79	40
CERES-0250	2-1/2"	63.5	78	10	150	30	450	180	2.17	40
CERES-0300	3"	76	91	10	150	30	450	225	3.03	40
CERES-0400	4"	102	118	10	150	30	450	350	3.67	40
CERES-0500	5"	127	146	10	150	30	450	450	6.05	40
CERES-0600	6"	152	172	10	150	30	450	530	7.02	40

Applications

Designed for suction and discharge of liquid foodstuffs including milk, beer, vegetable oil, edible oil, grease, etc. Widely used for liquid food tankers, food processing, and filling plants. It also can be used as ventilation line (not recommended for compressor line) of tank car to transfer liquid foodstuffs with a temperature up to 120°C. The inner tube is food-grade, smooth, taste-free, and odorless.

Advantages

The white and smooth food-grade tube can effectively inhibit the growth of bacteria. Very flexible, anti-twist, wear-resistant, anti-fouling. Suitable for steam and chemical sterilizing no more than 130 °C.

Technical Description

Tube: Food-grade white NBR rubber, smooth, oil resistant. 100% phthalates free

Reinforcement: High-tension synthetic textile, helix steel wire embedded

Cover: Blue NBR rubber, fabric impression. Abrasion, aging, and wear resistance

Temperature Range: -30°C to + 100°C (steam cleaning: temperature no more than 130°C and lasting time no more than 20min)

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



NBR Delivery Corrugated



TYPE ATLAS DE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(mm)	(kg/m)	(m)
ATLAS DE-0050	1/2"	13	22	10	150	40	600	/	/	40
ATLAS DE-0075	3/4"	19	29	10	150	40	600	/	/	40
ATLAS DE-0100	1"	25	35	10	150	40	600	/	/	40
ATLAS DE-0125	1-1/4"	32	33	10	150	40	600	/	/	40
ATLAS DE-0150	1-1/2"	38	49	10	150	40	600	/	/	40
ATLAS DE-0200	2"	51	63	10	150	40	600	/	/	40
ATLAS DE-0250	2-1/2"	63.5	76	10	150	40	600	/	/	40
ATLAS DE-0300	3"	76	89	10	150	40	600	/	/	40
ATLAS DE-0400	4"	102	116	10	150	40	600	/	/	40
ATLAS DE-0500	5"	127	142	10	150	40	600	/	/	40
ATLAS DE-0600	6"	152	168	10	150	40	600	/	/	40
ATLAS DE-0800	8"	203	221	10	150	40	600	/	/	40

Applications

A lightweight, highly flexible hose designed for delivery of foodstuffs, including milk, beer, wine, soft beverages, etc. Easy to install and move. Recommended choice as the special hose in the brewery. Extremely soft to accept the smallest bending radius without kinking. White and smooth tube assures no bacterial growth and complies with FDA requirements. Phthalate free.

Technical Description

Tube: White NBR synthetic rubber

Reinforcement: Synthetic textile fabric plies

Cover: Gray NBR synthetic rubber. Corrugated, wrapped cloth impression

Temperature Range: -30°C to +100°C

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



NBR SD Corrugated



TYPE ATLAS SUPFLEX

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
ATLAS SUPFLEX-0050	1/2"	13	24	10	150	40	600	/	/	40
ATLAS SUPFLEX-0075	3/4"	19	30	10	150	40	600	46	0.63	40
ATLAS SUPFLEX-0100	1"	25	36	10	150	40	600	51	0.79	40
ATLAS SUPFLEX-0125	1-1/4"	32	44	10	150	40	600	61	0.95	40
ATLAS SUPFLEX-0150	1-1/2"	38	50	10	150	40	600	64	1.15	40
ATLAS SUPFLEX-0200	2"	51	63	10	150	40	600	76	1.49	40
ATLAS SUPFLEX-0250	2-1/2"	63.5	77	10	150	40	600	127	2.17	40
ATLAS SUPFLEX-0300	3"	76	89	10	150	40	600	140	2.90	40
ATLAS SUPFLEX-0400	4"	102	116	10	150	40	600	191	3.85	40
ATLAS SUPFLEX-0500	5"	127	144	10	150	40	600	305	5.71	40
ATLAS SUPFLEX-0600	6"	152	169	10	150	40	600	432	6.77	40
ATLAS SUPFLEX-0800	8"	203	224	10	150	40	600	1016	12.75	40

Applications

A lightweight, highly flexible hose designed for suction and discharge of foodstuffs, including milk, beer, wine, soft beverages, etc. Easy to install and move. Recommended choice as the special hose in the brewery. Extremely soft to accept the smallest bending radius without kinking. White and smooth tube assures no bacterial growth and complies with FDA requirements. Phthalate free.

Technical Description

Tube: White NBR synthetic rubber

Reinforcement: Synthetic textile fabric plies and dual steel helix

Cover: Gray NBR synthetic rubber. Corrugated, wrapped cloth impression

Temperature Range: -30°C to +100°C

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



EPDM Food Delivery



TYPE HESTIA DE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
HESTIA DE-0050	1/2"	13	24	10	150	30	450	/	/	40
HESTIA DE-0075	3/4"	19	31	10	150	30	450	/	/	40
HESTIA DE-0100	1"	25	37	10	150	30	450	150	0.65	40
HESTIA DE-0125	1-1/4"	32	44	10	150	30	450	192	0.76	40
HESTIA DE-0150	1-1/2"	38	50	10	150	30	450	228	1.07	40
HESTIA DE-0200	2"	51	64	10	150	30	450	306	1.71	40
HESTIA DE-0250	2-1/2"	63.5	78	10	150	30	450	381	2.08	40
HESTIA DE-0300	3"	76	91	10	150	30	450	456	2.93	40
HESTIA DE-0400	4"	102	118	10	150	30	450	612	3.60	40
HESTIA DE-0500	5"	127	146	10	150	30	450	762	5.82	40
HESTIA DE-0600	6"	152	172	10	150	30	450	912	6.75	40

Advantages

The white and smooth food-grade tube can effectively inhibit the growth of bacteria. Very flexible, anti-twist, wear-resistant, anti-fouling. Suitable for steam and chemical sterilizing no more than 130 °C.

Technical Description

Tube: White food-grade EPDM rubber, smooth

Reinforcement: High tension synthetic cord, helix wire

Cover: Blue synthetic rubber, smooth, wrapped cloth finish. Weathering, ozone, aging resistance

Temperature Range: -40°C to +100°C

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



EPDM Food SD



TYPE HESTIA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
		(mm)	(mm)	(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
HESTIA-0050	1/2"	13	24	/	/	/	/	/	/	/	/
HESTIA-0075	3/4"	19	31	10	150	30	450	0.9	51	0.70	40
HESTIA-0100	1"	25	37	10	150	30	450	0.9	76	0.85	40
HESTIA-0125	1-1/4"	32	44	10	150	30	450	0.9	102	1.03	40
HESTIA-0150	1-1/2"	38	50	10	150	30	450	0.9	114	1.23	40
HESTIA-0200	2"	51	64	10	150	30	450	0.9	146	1.83	40
HESTIA-0250	2-1/2"	63.5	78	10	150	30	450	0.9	178	2.69	40
HESTIA-0300	3"	76	91	10	150	30	450	0.9	254	3.21	40
HESTIA-0400	4"	102	118	10	150	30	450	0.9	355	4.54	40
HESTIA-0500	5"	127	146	10	150	30	450	0.9	/	/	40
HESTIA-0600	6"	152	172	10	150	30	450	0.9	/	/	40

Applications

Food suction hose designed for liquid foodstuffs, such as wine, juice, soft drinks, etc. Not recommended for fatty food.

Advantages

The white and smooth food-grade tube can effectively inhibit the growth of bacteria. Very flexible, anti-twist, wear-resistant, anti-fouling. Suitable for steam and chemical sterilizing no more than 130 °C.

Technical Description

Tube: White food-grade EPDM rubber, smooth

Reinforcement: High tension synthetic cord, helix wire

Cover: Blue synthetic rubber, smooth, wrapped cloth finish. Weathering, ozone, aging resistance

Temperature Range: -40°C to +100°C

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



NR Food Delivery



TYPE VESTA DE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
VESTA DE-0050	1/2"	13	24	/	/	/	/	/	/	40
VESTA DE-0075	3/4"	19	31	10	150	30	450	/	/	40
VESTA DE-0100	1"	25	37	10	150	30	450	/	/	40
VESTA DE-0125	1-1/4"	32	44	10	150	30	450	/	/	40
VESTA DE-0150	1-1/2"	38	50	10	150	30	450	/	/	40
VESTA DE-0200	2"	51	64	10	150	30	450	/	/	40
VESTA DE-0250	2-1/2"	63.5	78	10	150	30	450	/	/	40
VESTA DE-0300	3"	76	91	10	150	30	450	/	/	40
VESTA DE-0400	4"	102	118	10	150	30	450	/	/	40
VESTA DE-0500	5"	127	146	10	150	30	450	/	/	40
VESTA DE-0600	6"	152	172	10	150	30	450	/	/	40

Applications

A food discharge hose that is suitable for suction and discharge of liquid non-fatty foodstuffs like milk, milk by-products, wine and beer, cider, etc.

Technical Description

Tube: White food-grade natural rubber, smooth. 100% phthalates free

Reinforcement: High tension synthetic plies

Cover: Grey, wrapped cloth finish. Abrasion, weather, and aging resistance

Temperature Range: -30°C to + 80°C

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011, BfR XXI cat.2



NR Food SD



TYPE VESTA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
VESTA-0050	1/2"	13	24	10	150	30	450	0.9	/	/	40
VESTA-0075	3/4"	19	31	10	150	30	450	0.9	55	0.70	40
VESTA-0100	1"	25	37	10	150	30	450	0.9	90	0.88	40
VESTA-0125	1-1/4"	32	44	10	150	30	450	0.9	115	1.10	40
VESTA-0150	1-1/2"	38	50	10	150	30	450	0.9	130	1.29	40
VESTA-0200	2"	51	64	10	150	30	450	0.9	160	1.80	40
VESTA-0250	2-1/2"	63.5	78	10	150	30	450	0.9	189	2.55	40
VESTA-0300	3"	76	91	10	150	30	450	0.9	260	3.05	40
VESTA-0400	4"	102	118	10	150	30	450	0.9	400	4.35	40
VESTA-0500	5"	127	146	10	150	30	450	0.9	/	/	40
VESTA-0600	6"	152	172	10	150	30	450	0.9	/	/	40

Applications

A food suction hose that is suitable for suction and discharge of liquid non-fatty foodstuffs like milk, milk by-products, wine and beer, cider, etc.

Technical Description

Tube: White food-grade natural rubber, smooth. 100% phthalates free

Reinforcement: High tension synthetic plies, helix steel wire

Cover: Grey, wrapped cloth finish. Abrasion, weather, and aging resistance

Temperature Range: -30°C to +80°C

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011, BfR XXI cat.2



CIIR Food Delivery



TYPE DIONYSUS

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
DIONYSUS-0075	3/4"	19	31	17	250	51	750	110	0.6	40
DIONYSUS-0100	1"	25	37	10	150	30	450	150	0.7	40
DIONYSUS-0125	1-1/4"	32	44	10	150	30	450	215	1.2	40
DIONYSUS-0150	1-1/2"	38	51	10	150	30	450	250	1.8	40
DIONYSUS-0200	2"	51	65	10	150	30	450	350	2.5	40
DIONYSUS-0250	2-1/2"	63.5	80	10	150	30	450	460	3.9	40
DIONYSUS-0300	3"	76	93	10	150	30	450	570	4.2	40
DIONYSUS-0400	4"	102	120	10	150	30	450	790	6.6	40

Applications

Low permeation food hose. Suitable for delivery of a wide range of liquid foodstuffs, including beer, wine, cider, and spirits with alcohol content up to 96%, etc. Excellent flexibility.

Technical Description

Tube: White food-grade CIIR rubber. Smooth, 100% phthalates free

Reinforcement: High tension synthetic plies

Cover: Red EPDM rubber, wrapped cloth finish. Ozone, weather, and aging resistance

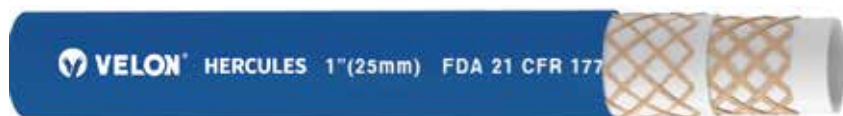
Temperature Range: -35°C to + 100°C

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011, BfR XXI cat.2



Hot Water Delivery



TYPE HERCULES

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
HERCULES-0031	5/16"	7.9	15	20	6	60	900	40	0.25	100
HERCULES-0038	3/8"	9.5	17.5	20	6	60	900	45	0.30	50
HERCULES-0050	1/2"	12.7	23	20	6	60	900	65	0.38	50
HERCULES-0063	5/8"	15.9	26	20	6	60	900	85	0.44	50
HERCULES-0075	3/4"	19.1	31	20	6	60	900	100	0.63	50
HERCULES-0100	1"	25.4	37	20	6	60	900	125	0.78	50

Applications

Cleaning hose for delivery of hot water and steam up to 165°C. Suitable for cleaning and washing in dairy, canned factory, aquatic products and other food industry washdown. Can also be used to transfer high-temperature liquid foodstuffs. Hose can be reeled for application.

Advantages

Excellent flexibility.

Technical Description

Tube: White NBR rubber, food-grade. Smooth, oil resistance, phthalates free

Reinforcement: High tension synthetic textile

Cover: Blue NBR/PVC mixed rubber, smooth. Oil resistance, anti-aging, anti-fouling

Temperature Range: -20°C to + 100°C (saturated steam: maximum to 165°C)

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



Hot Water Delivery EPDM



TYPE HERCULES HT

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
HERCULES HT-0050	1/2"	12.7	23.0	20	6	60	900	70	0.39	60
HERCULES HT-0063	5/8"	15.9	26.0	20	6	60	900	90	0.45	60
HERCULES HT-0075	3/4"	19.1	31.0	20	6	60	900	110	0.65	40
HERCULES HT-0100	1"	25.4	37.0	20	6	60	900	130	0.81	40

Applications

Premium EPDM washdown hose. Designed for delivery of hot water and steam up to 165°C. Widely used for food processing plants in non-oily applications, dairies, creameries, breweries, food, beverage, etc.

Technical Description

Tube: White EPDM rubber, food-grade. Smooth, phthalates free

Reinforcement: High tension synthetic textile

Cover: Blue EPDM rubber, smooth. Ozone resistance, smooth finish

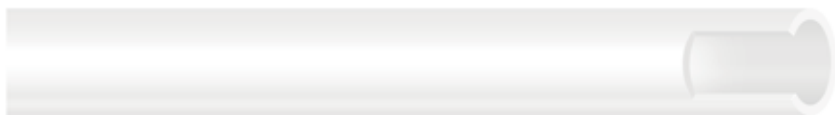
Temperature Range: -40°C to + 120°C (saturated steam: maximum to 165°C)

Standards

FDA 21 CFR 177.2600, EC No. 1935/2004, EU No. 10/2011



Silicone Tubing



TYPE HERA

No.	I.D. (mm)	Wall (mm)	O.D. (mm)	Length (m)
HERA-0040	1.0	1.0	3.0	20
HERA-0079	2.0	1.0	4.0	20
HERA-0120	3.0	1.0	5.0	20
HERA-0157	4.0	1.0	6.0	20
HERA-0160	4.0	2.0	8.0	20
HERA-0200	5.0	1.5	8.0	20
HERA-0230	6.0	2.5	11.0	20
HERA-0236	6.0	1.5	9.0	20
HERA-0250	6.4	1.6	9.6	20
HERA-0311	7.9	2.4	12.7	20
HERA-0312	7.9	2.5	12.9	20
HERA-0313	8.0	2.0	12.0	20
HERA-0314	8.0	3.0	14.0	20
HERA-0353	9.0	2.0	13.0	20
HERA-0380	9.5	2.0	13.5	20
HERA-0395	10.0	3.0	16.0	20
HERA-0471	12.0	2.0	16.0	20
HERA-0472	12.0	3.0	18.0	20
HERA-0550	14.0	3.0	20.0	20
HERA-0630	16.0	3.0	22.0	20
HERA-0670	17.0	3.0	23.0	20
HERA-0711	18.0	2.5	28.0	20
HERA-0750	19.0	5.0	25.0	20
HERA-0781	20.0	3.0	25.0	20
HERA-1000	25.0	3.0	31.0	20
HERA-1250	32.0	3.0	38.0	20
HERA-1500	38.0	2.0	42.0	20
HERA-1501	38.0	3.0	44.0	20
HERA-2000	50.0	3.0	56.0	20
HERA-2500	63.0	3.0	69.0	20

Applications

It is produced for critical pharmaceutical, biomedical, cosmetic, and food applications. The silicone tubing is not intended for implantation, continuous steam applications, or elevated pressure levels

Technical Description

Temperature Range: -60°C to +200°C

Color: Semitransparent

Standards: FDA 21 CFR 177.2600



Silicone SD



TYPE PANACEA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PANACEA-0050	1/2"	12.7	25.5	10	150	40	450	0.9	60	0.35	10
PANACEA-0063	5/8"	16.0	27.0	10	150	40	450	0.9	70	0.46	10
PANACEA-0075	3/4"	19.0	31.0	10	150	40	450	0.9	85	0.52	10
PANACEA-0100	1"	25.0	37.0	10	150	40	450	0.9	110	0.78	10
PANACEA-0125	1-1/4"	31.8	44.2	10	150	40	450	0.9	140	1.10	10
PANACEA-0150	1-1/2"	38.0	50.0	10	150	40	450	0.9	180	1.38	10
PANACEA-0200	2"	50.0	63.0	10	150	40	450	0.9	250	1.90	10
PANACEA-0250	2-1/2"	63.0	75.0	7	100	28	400	0.9	280	2.80	6
PANACEA-0300	3"	76.0	89.0	4	60	16	240	0.9	390	3.50	6
PANACEA-0400	4"	102.0	115.0	3	45	12	180	0.9	480	4.90	6

Applications

Widely used in the sanitary industry, including food, beverages, cosmetics, medicine, pharmacy, intermediates, semi-finished products.

Technical Description

Structure: High-purity platinum-cured silicone with stainless steel helix and 4 layers of polyester reinforcement

Color: Semi-transparent

Temperature Range: -60°C to + 180°C (max 220°C)

Standards

FDA 21 CFR 177.2600, EC NO.1935/2004, EU NO.10/2011, USP CLASS VI



Silicone SD FEP



TYPE PANACEA FEP

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P. (bar)	MBR (mm)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
PANACEA FEP-0050	1/2"	12.7	25.1	10	150	40	450	0.9	60	10
PANACEA FEP-0100	1"	25.4	37.8	10	150	40	450	0.9	110	10
PANACEA FEP-0150	1-1/2"	38.1	50.5	10	150	40	450	0.9	180	10
PANACEA FEP-0200	2"	50.8	63.2	10	150	40	450	0.9	250	10

Applications

FEP inner tube, which has excellent resistance to liquid, semi-liquid, and corrosive chemicals. Thanks to FEP's extremely low friction coefficient, it reduces the media residual significantly. Braid and steel wire reinforcement increases the pressure and vacuum resistance of the hose so that it will transfer media easily at a high temperature.

Technical Description

Tube: White smooth FEP

Reinforcement: Polyester textile and stainless steel wire

Cover: Pharmaceutical grade silicone

Color: White

Temperature Range: -30°C to + 150°C

Features

Smooth inner tube

Excellent corrosive resistance

Extremely low friction coefficient

Standards

FDA 21 CFR 177.2600, EC NO.1935/2004, EU NO.10/2011, USP CLASS VI



Silicone SD FVMQ



TYPE PANACEA FVMQ

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	W.P. (psi)	B.P. (bar)	B.P. (psi)	N.P. (bar)	MBR (mm)	Length (m)
PANACEA FVMQ-0050	1/2"	12.7	25.1	10	150	40	450	0.9	60	10
PANACEA FVMQ-0063	5/8"	16.0	28.4	10	150	40	450	0.9	70	10
PANACEA FVMQ-0075	3/4"	19.0	31.4	10	150	40	450	0.9	85	10
PANACEA FVMQ-0100	1"	25.4	37.8	10	150	40	450	0.9	110	10
PANACEA FVMQ-0125	1-1/4"	31.8	44.2	10	150	40	450	0.9	140	10
PANACEA FVMQ-0150	1-1/2"	38.1	50.5	10	150	40	450	0.9	180	10
PANACEA FVMQ-0200	2"	50.8	63.2	10	150	40	450	0.9	250	10
PANACEA FVMQ-0250	2-1/2"	63.5	75.9	7	100	28	400	0.9	280	6
PANACEA FVMQ-0300	3"	76.2	88.6	3	44	12	175	0.9	390	6
PANACEA FVMQ-0400	4"	102.0	114.4	2	29	8	116	0.9	480	6

Applications

Special designed for liquid and semi-liquid transfer in food, cosmetics, and chemical industries. Excellent resistance to fatty, oily food, Ethanol, and alcohol beverages.

Technical Description

Tube: White smooth FVMQ

Reinforcement: Polyester textile and stainless steel wire

Cover: Pharmaceutical grade silicone

Color: White

Temperature Range: -40°C to + 170°C

Features

Resistance to water, oil, and alcohol

Excellent corrosive resistance at CIP cleaning

Standards

FDA 21 CFR 177.2600, EC NO.1935/2004, EU NO.10/2011, USP CLASS VI



Silicone Delivery



TYPE HERA W

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	W.P. (psi)	B.P. (bar)	B.P. (psi)	MBR (mm)	Weight (kg/m)	Length (m)
HERA W-0013	1/8"	3.2	9.0	13.0	190	39.0	570	50	0.07	20
HERA W-0016	1/6"	4.2	10.0	11.0	160	33.0	480	60	0.08	20
HERA W-0019	3/16"	4.8	10.0	10.0	145	30.0	435	70	0.09	20
HERA W-0025	1/4"	6.3	13.2	9.0	130	27.0	390	80	0.12	20
HERA W-0031	5/16"	7.9	14.3	8.0	116	24.0	348	90	0.15	20
HERA W-0038	3/8"	9.5	16.5	10.0	102	21.0	306	100	0.16	20
HERA W-0050	1/2"	12.7	20.1	6.0	87	18.0	261	130	0.21	20
HERA W-0063	5/8"	15.9	25.0	5.0	73	15.0	219	150	0.31	20
HERA W-0075	3/4"	19.0	28.2	4.5	66	13.5	198	180	0.41	20
HERA W-0087	7/8"	22.2	31.3	4.0	58	12.0	174	200	0.52	20
HERA W-0100	1"	25.4	35.6	3.5	51	10.5	153	220	0.59	20
HERA W-0125	1-1/4"	32.0	43.8	3.0	44	9.0	132	250	0.85	20
HERA W-0150	1-1/2"	38.0	49.5	2.5	36	7.5	109	240	/	10

Applications

Suitable for food & beverages, cosmetics, medicine, and pharmaceutical industries. It can deliver liquids at medium pressure without a closed bending radius. It is not recommended for vacuum application. It is also suitable for CIP and SIP cleaning.

Technical Description

Structure: High purity platinum cured silicone with polyester fiber reinforcement

Color: Transparent

Temperature Range: -40°C to + 150°C

Standards

FDA 21 CFR 177.2600, EC NO.1935/2004, EU NO.10/2011, USP CLASS VI



Silicone Delivery 4 Layers



TYPE HERA W4

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
HERA W4-0100	1"	25	43.0	6.7	100	20.1	302	0.7	6
HERA W4-0125	1-1/4"	32	41.0	6.3	95	18.9	284	0.8	6
HERA W4-0150	1-1/2"	38	47.0	5.5	83	16.5	248	0.9	6
HERA W4-0175	1-3/4"	45	54.0	5.0	75	15.0	225	1.1	6
HERA W4-0200	2"	51	61.5	4.6	69	13.8	207	1.2	6
HERA W4-0225	2-1/4"	57	66.0	4.3	65	12.9	194	1.5	6
HERA W4-0250	2-1/2"	63	72.0	4.0	60	12.0	180	1.7	6
HERA W4-0300	3"	76	85.0	3.5	53	10.5	158	2.1	6
HERA W4-0350	3-1/2"	89	98.0	3.0	45	9.0	135	2.3	6
HERA W4-0400	4"	102	111.0	2.7	41	8.1	122	2.6	6

Applications

Normally used in food, pharmaceutical and cosmetic processes. Not recommended for vacuum applications.

Technical Description

Tube: Smooth bore platinum cured silicone

Reinforcement: 4 polyester textile

Cover: Platinum cured silicone

Color: Semi-transparent

Temperature Range: -50°C to +180°C

Standards

FDA 21 CFR 177.2600, EC NO.1935/2004, EU NO.10/2011, USP CLASS VI



Chemical SD EPDM



TYPE TITAN EPDM

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	(psi)	B.P. (bar)	(psi)	N.P. (bar)	MBR (mm)	Weight (kg/m)	Length (m)
TITAN EPDM-0075	3/4"	19	31	20.7	300	60	900	0.9	90	0.8	40
TITAN EPDM-0100	1"	25	37	20.7	300	60	900	0.9	100	1.0	40
TITAN EPDM-0125	1-1/4"	32	44	20.7	300	60	900	0.9	130	1.2	40
TITAN EPDM-0150	1-1/2"	38	50	20.7	300	60	900	0.9	150	1.4	40
TITAN EPDM-0200	2"	51	64	20.7	300	60	900	0.9	300	1.9	40
TITAN EPDM-0250	2-1/2"	63.5	78	20.7	300	60	900	0.9	350	2.5	40
TITAN EPDM-0300	3"	76	91	20.7	300	60	900	0.9	400	3.4	40
TITAN EPDM-0350	3-1/2"	89	105	20.7	300	60	900	0.9	500	4.2	40
TITAN EPDM-0400	4"	102	118	20.7	300	60	900	0.9	550	4.8	40
TITAN EPDM-0500	5"	127	146	20.7	300	60	900	0.9	650	7.7	40
TITAN EPDM-0600	6"	152	172	20.7	300	60	900	0.9	800	9.7	40
TITAN EPDM-0800	8"	203	230	20.7	300	60	900	0.9	1000	15.4	40

Applications

Hard wall hose for handling chemical solvents with concentrations up to 40% sulfuric acid, 30% hydrochloric acid, 15% of sodium hydroxide solution, and other equivalent chemical solvents at room temperature(except nitric acid). Withstand vacuum pressure to -0.9bar.

Technical Description

Tube: EPDM synthetic rubber, black, heat and chemical resistance

Reinforcement: High-tension textile fabric or cord, helix steel wire

Cover: Black fabric impression surface. Synthetic rubber, acid & alkali resistance, aging and wear resistance

Temperature Range: -20°C to +70°C



Chemical SD UPE Supflex



TYPE TITAN SUPFLEX

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
TITAN SUPFLEX-0075	3/4"	19	31	16	240	64	960	0.9	114	0.7	40
TITAN SUPFLEX-0100	1"	25	37	16	240	64	960	0.9	150	0.9	40
TITAN SUPFLEX-0125	1-1/4"	32	44	16	240	64	960	0.9	192	1.1	40
TITAN SUPFLEX-0150	1-1/2"	38	50	16	240	64	960	0.9	228	1.3	40
TITAN SUPFLEX-0200	2"	51	64	16	240	64	960	0.9	306	1.7	40
TITAN SUPFLEX-0250	2-1/2"	63.5	78	16	240	64	960	0.9	381	2.1	40
TITAN SUPFLEX-0300	3"	76	91	16	240	64	960	0.9	456	2.8	40
TITAN SUPFLEX-0400	4"	102	118	16	240	64	960	0.9	800	3.8	40
TITAN SUPFLEX-0500	5"	127	146	16	240	64	960	0.9	1200	6.5	40
TITAN SUPFLEX-0600	6"	152	172	16	240	64	960	0.9	1500	8.1	40

Applications

Suitable for suction and discharge most of the corrosive chemicals, including solvents, alcohols, acids and chemicals with a concentration of up to 98%.

Technical Description

Tube: Transparent UPE, light colored synthetic rubber

Reinforcement: High tension synthetic fibers, spiral steel wires

Cover: Green, EPDM rubber, wear, ozone, weather, and aging resistant. Other colors are available

Temperature Range: -40°C to +100°C



Chemical SD UPE Conductive



TYPE TITAN SUPFLEX C

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	W.P. (psi)	B.P. (bar)	B.P. (psi)	N.P. (bar)	MBR (mm)	Weight (kg/m)	Length (m)
TITAN SUPFLEX C-0075	3/4"	19	31	16	240	64	960	0.9	114	0.7	40
TITAN SUPFLEX C-0100	1"	25	37	16	240	64	960	0.9	150	0.9	40
TITAN SUPFLEX C-0125	1-1/4"	32	44	16	240	64	960	0.9	192	1.1	40
TITAN SUPFLEX C-0150	1-1/2"	38	50	16	240	64	960	0.9	228	1.3	40
TITAN SUPFLEX C-0200	2"	51	64	16	240	64	960	0.9	306	1.7	40
TITAN SUPFLEX C-0250	2-1/2"	63.5	78	16	240	64	960	0.9	381	2.1	40
TITAN SUPFLEX C-0300	3"	76	91	16	240	64	960	0.9	456	2.8	40
TITAN SUPFLEX C-0400	4"	102	118	16	240	64	960	0.9	800	3.8	40
TITAN SUPFLEX C-0500	5"	127	146	16	240	64	960	0.9	1200	6.5	20
TITAN SUPFLEX C-0600	6"	152	172	16	240	64	960	0.9	1500	8.1	20

Applications

Suitable for suction and discharge the vast majority of corrosive chemicals, solvents, alcohols, acids and chemicals with a concentration of up to 98%.

Technical Description

Tube: UPE, black, conductive, corrosive resistant. $R < 10^6 \Omega$

Reinforcement: High tension synthetic fibers, spiral steel wires

Cover: Blue, EPDM rubber, wear, Ozone, weather, and aging resistant. Other colors are available

Temperature Range: -40°C to +100°C



Food SD UPE



TYPE DIONE UPE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
DIONE UPE-0050	1/2"	13	24	10	150	30	450	/	/	/
DIONE UPE-0075	3/4"	19	31	20	300	80	1200	90	0.6	40
DIONE UPE-0100	1"	25	37	20	300	80	1200	140	0.7	40
DIONE UPE-0125	1-1/4"	32	44	20	300	80	1200	175	1.1	40
DIONE UPE-0150	1-1/2"	38	51	20	300	80	1200	225	1.4	40
DIONE UPE-0200	2"	51	65	20	300	80	1200	280	1.9	40
DIONE UPE-0250	2-1/2"	63.5	79	20	300	80	1200	410	2.5	40
DIONE UPE-0300	3"	76	91	20	300	80	1200	500	3.1	40
DIONE UPE-0400	4"	102	118	20	300	80	1200	600	4.6	40

Applications

Clear food-grade UPE hose. Hard wall, suitable for suction and delivery of all kinds of drinks, non-fatty and fatty foods. Especially for potable water.

Technical Description

Tube: Food grade UPE. Clear, 100% phthalates free

Reinforcement: High tension synthetic plies and helix steel wire

Cover: Green EPDM rubber. Abrasion, ozone, weather, and aging resistance. Corrugated wrapped finish

Temperature Range: -40°C to +100°C

Standards

FDA 21 CFR 177.1520, EC No. 1935/2004, EU No. 10/2011, BfR XXI cat.2



Food SD UPE Tube Conductive



TYPE TITAN UPE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
TITAN UPE-0100	1"	25.0	36	10	150	30	450	0.9	100	0.75	40
TITAN UPE-0125	1-1/4"	32.0	43	10	150	30	450	0.9	128	0.96	40
TITAN UPE-0150	1-1/2"	38.0	49	10	150	30	450	0.9	152	1.38	40
TITAN UPE-0200	2"	51.0	63	10	150	30	450	0.9	204	1.85	40
TITAN UPE-0250	2-1/2"	64	75	10	150	30	450	0.9	256	2.36	40
TITAN UPE-0300	3"	76	90	10	150	30	450	0.9	304	2.93	40
TITAN UPE-0400	4"	102	114	10	150	30	450	0.9	408	3.91	40
TITAN UPE-0500	5"	127	146	10	150	30	450	0.9	508	6.05	20
TITAN UPE-0600	6"	152	172	10	150	30	450	0.9	608	7.15	20

Applications

Anti-static and food grade UPE hose. Hard wall, suitable for suction and discharge of foodstuffs that contain a high percentage of alcohol, highly concentrated acids, halogenic and aromatic solvents, etc.

Technical Description

Tube: White food grade UHMWPE with black anti-static strip. 100% phthalates free

Reinforcement: High tension textile fabric, helix steel wire

Cover: Green EPDM rubber, corrugated. Abrasion, ozone, weather, and aging resistance. wrapped cloth finish

Standards

FDA 21 CFR 177.1520, EC No. 1935/2004, EU No. 10/2011, BfR XXI cat.2



Food SD UPE T&C Conductive



TYPE TALOS UPE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
TALOS UPE-0100	1"	25	37	10	150	30	450	0.9	100	0.75	40
TALOS UPE-0125	1-1/4"	32	44	10	150	30	450	0.9	128	0.96	40
TALOS UPE-0150	1-1/2"	38	50	10	150	30	450	0.9	152	1.38	40
TALOS UPE-0200	2"	51	64	10	150	30	450	0.9	204	1.85	40
TALOS UPE-0250	2-1/2"	63.5	78	10	150	30	450	0.9	254	2.36	40
TALOS UPE-0300	3"	76	91	10	150	30	450	0.9	304	2.93	40
TALOS UPE-0400	4"	102	118	10	150	30	450	0.9	408	3.91	40
TALOS UPE-0500	5"	127	146	10	150	30	450	0.9	508	6.05	20
TALOS UPE-0600	6"	152	172	10	150	30	450	0.9	608	7.15	20

Applications

Food grade UPE hose. Hard wall, tube and cover is anti-static. Suitable for suction and discharge high-concentration alcohol, acid, halogenated alkanes, and aromatic solvents, etc.

Technical Description

Tube: Food grade white UPE with black anti-static strip. 100% phthalates free

Reinforcement: High tension textile fabric, helix steel wire

Cover: Black, conductive EPDM. Corrugated. Abrasion, ozone, weather and aging resistant. Wrapped finish

Temperature Range: -40°C to +100°C

Standards

FDA 21 CFR 177.1520, EC No. 1935/2004, EU No. 10/2011, BfR XXI cat.2



Chemical SD PTFE



TYPE ARES PTFE

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	W.P. (psi)	B.P. (bar)	B.P. (psi)	N.P. (bar)	MBR (mm)	Weight (kg/m)	Length (m)
ARES PTFE-0050	1/2"	13	25	13.7	200	40	600	0.9	75	0.51	40
ARES PTFE-0075	3/4"	19	31	13.7	200	40	600	0.9	110	0.66	40
ARES PTFE-0100	1"	25	37	13.7	200	40	600	0.9	150	0.81	40
ARES PTFE-0125	1-1/4"	32	44	13.7	200	40	600	0.9	200	1.11	40
ARES PTFE-0150	1-1/2"	38	51	13.7	200	40	600	0.9	240	1.35	40
ARES PTFE-0200	2"	50	66	13.7	200	40	600	0.9	320	2.06	40
ARES PTFE-0250	2-1/2"	63.5	79.5	13.7	200	40	600	0.9	430	2.96	20
ARES PTFE-0300	3"	75	91	13.7	200	40	600	0.9	510	3.43	20
ARES PTFE-0400	4"	100	116	13.7	200	40	600	0.9	675	4.60	20

Applications

Designed for the chemical industry, foodstuff, pharmaceutical and cosmetic industries. Used for most chemicals and solvents. except for chlorine trifluoride, chlorine and fluorine gas/oxygen difluoride, phosgene, and molten alkalis (for ex.sodium).Resistant to high temperature and oxidation.Excellent chemical and mechanical properties. Phthalates free tube, confirm to RoHS guideline.

Technical Description

Tube: PTFE, Co-extruded. Clear/White pigmented, smooth

Reinforcement: Synthetic plies, galvanized wire helices, a/s stainless steel wires to discharge static electricity

Cover: Synthetic rubber, smooth. Green. Abrasion, aging and ozone resistant

Temperature Range: -40°C to +150°C (intermittent to +180°C)

Standards

FDA 21 CFR 177.1520, EC No. 1935/2004, EU No. 10/2011, USP Class VI, ISO 10993-5,10,11: 2009



Chemical SD FEP



TYPE ARES FEP

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
ARES FEP-0075	3/4"	19	31	10	150	40	580	0.9	80	0.73	40
ARES FEP-0100	1"	25	37	16	240	48	720	0.9	120	0.89	40
ARES FEP-0125	1-1/4"	32	44	16	240	48	720	0.9	175	1.15	40
ARES FEP-0150	1-1/2"	38	51	16	240	48	720	0.9	220	1.38	40
ARES FEP-0200	2"	51	65	16	240	48	720	0.9	290	2.20	40

Applications

Suction and discharge of corrosive chemicals, including fuels, solvents, and oils. Not suitable for chlorine trifluoride, fluorine gas dry, oxygen difluoride, and molten alkalis metals such as sodium. For unloading bays, mobile and fixed installations in chemical, pharmaceutical, and allied industries.

Technical Description

Tube: FEP (Fluorinated Ethylene Propylene), white, smooth. Chemical resistant

Reinforcement: Synthetic textile with embedded steel helix

Cover: Green EPDM, fabric impression. Chemical and weather resistant

Temperature Range: -40°C to +150°C

Standards

FDA 21 CFR 177.1520, EC No. 1935/2004, EU No. 10/2011



Chemical SD FEP Tube Conductive



TYPE ARES FEP C

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
ARES FEP C-0050	1/2"	13	24	10	150	40	580	0.9	65	0.58	40
ARES FEP C-0075	3/4"	19	31	10	150	40	580	0.9	95	0.73	40
ARES FEP C-0100	1"	25	37	10	150	40	580	0.9	125	0.89	40
ARES FEP C-0125	1-1/4"	32	44	10	150	40	580	0.9	160	1.15	40
ARES FEP C-0150	1-1/2"	38	50	10	150	40	580	0.9	190	1.38	40
ARES FEP C-0200	2"	51	64	10	150	40	580	0.9	255	2.20	40

Applications

Suction and discharge of corrosive chemicals: fuels, solvents, oils and corrosive chemicals except chlorine trifluoride, fluorine gas, dry oxygen difluoride and molten alkalis metals such as sodium. For unloading bays as well as mobile and fixed installations in chemical, pharmaceutical and allied industries. For unloading bays, mobile and fixed installations in chemical, pharmaceutical, and allied industries. Tube is conductive.

Technical Description

Tube: Black conductive FEP (Fluorinated Ethylene Propylene), smooth, chemical resistance

Reinforcement: Synthetic textile with embedded steel helix

Cover: Green EPDM. Chemical and weather resistant. Fabric impression

Temperature Range: -40°C to +150°C

Electrical Properties: Embedded conductive wire

Standards

EN 12115, EC No. 1935/2004, EU No.10/2011



Chemical SD FEP T&C Conductive



TYPE TALOS FEP

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P. (bar)	MBR (mm)	Weight (kg/m)	Length (m)
TALOS UPE-0050	1/2"	13	24	10	150	40	580	0.9	65	0.58	40
TALOS UPE-0075	3/4"	19	31	10	150	40	580	0.9	95	0.73	40
TALOS UPE-0100	1"	25	37	10	150	40	580	0.9	125	0.89	40
TALOS UPE-0125	1-1/4"	32	44	10	150	40	580	0.9	160	1.15	40
TALOS UPE-0150	1-1/2"	38	50	10	150	40	580	0.9	190	1.38	40
TALOS UPE-0200	2"	51	64	10	150	40	580	0.9	255	2.20	40

Applications

Suction and discharge of corrosive chemicals, including fuels, solvents, and oils. Not suitable for chlorine trifluoride, fluorine gas dry, oxygen difluoride, and molten alkalis metals such as sodium. For unloading bays, mobile and fixed installations in chemical, pharmaceutical, and allied industries. Tube and cover is conductive.

Technical Description

Tube: Black conductive FEP (Fluorinated Ethylene Propylene), smooth, chemical resistance

Reinforcement: Synthetic textile with embedded steel helix

Cover: Green conductive EPDM. Chemical and weather resistant. Fabric impression

Temperature Range: -40°C to +150°C

Electrical Properties: Embedded conductive wire

Standards

EN 12115, EC No. 1935/2004, EU No.10/2011



SISYPHUS NR



TYPE SISYPHUS NR

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	Length (m)
SISYPHUS NR-0038	3/8"	10	31	12	450
SISYPHUS NR-0050	1/2"	15	36	12	755
SISYPHUS NR-0075	3/4"	20	36	12	755
SISYPHUS NR-0100	1"	25	53	12	1005
SISYPHUS NR-0125	1-1/4"	32	61	12	1250
SISYPHUS NR-0150	1-1/2"	40	66	12	1490
SISYPHUS NR-0200	2"	50	80	12	1820
SISYPHUS NR-0250	2-1/2"	65	99	12	2340
SISYPHUS NR-0300	3"	80	122	12	2780
SISYPHUS NR-0400	4"	100	144	12	3280

Applications

Highly elastic with excellent wear resistance and strength. Commonly used in the hose pumps.

Technical Description

Tube: Wear resistant NR rubber

Reinforcement: High tension textiles

Cover: NR rubber

Temperature Range: -10°C to + 80°C



SISYPHUS EPDM



TYPE SISYPHUS EPDM

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	Length (m)
SISYPHUS EPDM-0038	3/8"	10	31	12	450
SISYPHUS EPDM-0050	1/2"	15	36	12	755
SISYPHUS EPDM-0075	3/4"	20	36	12	755
SISYPHUS EPDM-0100	1"	25	53	16	1005
SISYPHUS EPDM-0125	1-1/4"	32	61	16	1250
SISYPHUS EPDM-0150	1-1/2"	40	66	16	1490
SISYPHUS EPDM-0200	2"	50	80	16	1820
SISYPHUS EPDM-0250	2-1/2"	65	99	16	2340
SISYPHUS EPDM-0300	3"	80	122	16	2780
SISYPHUS EPDM-0400	4"	100	144	16	3280

Applications

Excellent chemical resistance. Especially resistant to acids, alcohols, and ketones.

Technical Description

Tube: EPDM rubber

Reinforcement: High tension textiles

Cover: NR rubber, wear resistance

Temperature Range: -10°C to + 80°C



SISYPHUS CSM



TYPE SISYPHUS CSM

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	Length (m)
SISYPHUS CSM-0038	3/8"	10	31	12	450
SISYPHUS CSM-0050	1/2"	15	36	12	755
SISYPHUS CSM-0075	3/4"	20	36	12	755
SISYPHUS CSM-0100	1"	25	53	16	1005
SISYPHUS CSM-0125	1-1/4"	32	61	16	1250
SISYPHUS CSM-0150	1-1/2"	40	66	16	1490
SISYPHUS CSM-0200	2"	50	80	16	1820
SISYPHUS CSM-0250	2-1/2"	65	99	16	2340
SISYPHUS CSM-0300	3"	80	122	16	2780
SISYPHUS CSM-0400	4"	100	144	16	3280

Applications

High antioxidant properties, including strong acids and alkalis

Technical Description

Tube: CSM rubber

Reinforcement: High tension textiles

Cover: NR rubber, wear resistance

Temperature Range: -10°C to + 80°C



SISYPHUS F-NBR



TYPE SISYPHUS F-NBR

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P. (bar)	Length (m)
SISYPHUS F-NBR-0038	3/8"	10	31	12	450
SISYPHUS F-NBR-0050	1/2"	15	36	12	755
SISYPHUS F-NBR-0075	3/4"	20	36	12	755
SISYPHUS F-NBR-0100	1"	25	53	16	1005
SISYPHUS F-NBR-0125	1-1/4"	32	61	16	1250
SISYPHUS F-NBR-0150	1-1/2"	40	66	16	1490
SISYPHUS F-NBR-0200	2"	50	80	16	1820
SISYPHUS F-NBR-0250	2-1/2"	65	99	16	2340
SISYPHUS F-NBR-0300	3"	80	122	16	2780
SISYPHUS F-NBR-0400	4"	100	144	16	3280

Applications

Inner tube is FDA-grade Nitrile rubber. Can be used in the sanitary industry.

Technical Description

Tube: White NBR rubber

Reinforcement: High tension textiles

Cover: NR rubber, wear resistance

Temperature Range: -10°C to + 80°C



Sandblast Delivery



TYPE PERSEUS DE 150

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
PERSEUS DE 150-0075	3/4"	19	31	10	150	30	450	110	0.6	100
PERSEUS DE 150-0100	1"	25	37	10	150	30	450	150	0.8	100
PERSEUS DE 150-0125	1-1/4"	32	46	10	150	30	450	200	1.1	100
PERSEUS DE 150-0150	1-1/2"	38	52	10	150	30	450	250	1.3	100
PERSEUS DE 150-0200	2"	51	66	10	150	30	450	350	1.8	100
PERSEUS DE 150-0250	2-1/2"	64	79	10	150	30	450	420	2.2	100
PERSEUS DE 150-0300	3"	76	92	10	150	30	450	500	2.5	100
PERSEUS DE 150-0350	3-1/2"	89	106	10	150	30	450	550	3.0	100
PERSEUS DE 150-0400	4"	102	119	10	150	30	450	650	3.5	100
PERSEUS DE 150-0500	5"	127	146	10	150	30	450	800	5.1	100
PERSEUS DE 150-0600	6"	152	171	10	150	30	450	950	6.0	100
PERSEUS DE 150-0800	8"	203	224	10	150	30	450	1300	8.5	60

TYPE PERSEUS DE 300

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
PERSEUS DE 300-0075	3/4"	19	31	20	300	60	900	110	0.6	100
PERSEUS DE 300-0100	1"	25	37	10	150	30	450	150	0.8	100
PERSEUS DE 300-0125	1-1/4"	32	46	10	150	30	450	210	1.1	100
PERSEUS DE 300-0150	1-1/2"	38	53	10	150	30	450	250	1.3	100
PERSEUS DE 300-0200	2"	51	67	10	150	30	450	350	1.8	100
PERSEUS DE 300-0250	2-1/2"	64	80	10	150	30	450	420	2.2	100
PERSEUS DE 300-0300	3"	76	92	10	150	30	450	500	2.5	100
PERSEUS DE 300-0350	3-1/2"	89	106	10	150	30	450	550	3.1	100
PERSEUS DE 300-0400	4"	102	122	10	150	30	450	650	4.2	100
PERSEUS DE 300-0500	5"	127	148	10	150	30	450	800	5.1	100
PERSEUS DE 300-0600	6"	152	173	10	150	30	450	950	6.1	100

Applications

Soft wall hose for delivery of quartz sand, cast steel shot and other abrasive materials. Inner tube standards meet ISO4649: $\leq 80\text{mm}^3$.

Technical Description

Tube: Black synthetic rubber, abrasion resistant

Reinforcement: High-tension textile cord. Anti-static copper wire available

Cover: Fabric impression surface, wear resistance, aging resistance

Temperature Range: -20°C to $+75^{\circ}\text{C}$



Heavy Duty Sandblast Delivery



TYPE PERSEUS DE PRO

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
PERSEUS DE PRO-0075	3/4"	19	30	40	600	120	1800	120	1.0	100
PERSEUS DE PRO-0100	1"	25	39	10	150	30	450	150	1.5	100
PERSEUS DE PRO-0125	1-1/4"	32	46	10	150	30	450	210	2.0	100
PERSEUS DE PRO-0150	1-1/2"	38	54	10	150	30	450	250	2.2	100
PERSEUS DE PRO-0200	2"	51	67	10	150	30	450	315	2.7	100
PERSEUS DE PRO-0250	2-1/2"	64	83	10	150	30	450	350	3.4	100
PERSEUS DE PRO-0300	3"	76	95	10	150	30	450	500	4.0	100
PERSEUS DE PRO-0350	3-1/2"	89	108	10	150	30	450	550	4.6	100
PERSEUS DE PRO-0400	4"	102	121	10	150	30	450	600	6.3	100

Applications

Soft wall hose for delivery of quartz sand, cast steel shot and other abrasive materials. Inner tube standards meet ISO4649: $\leq 80\text{mm}^3$.

Technical Description

Tube: Black synthetic rubber, abrasion resistance

Reinforcement: High-tension textile cord

Cover: Black synthetic rubber, wear resistance, ozone resistance, aging resistance

Temperature Range: -25°C to $+75^{\circ}\text{C}$

Standards

ISO3861



Sandblast SD



TYPE PERSEUS 150

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PERSEUS 150-0075	3/4"	19	32	10	150	30	450	0.9	90	0.9	60
PERSEUS 150-0100	1"	25	38	10	150	30	450	0.9	100	1.1	60
PERSEUS 150-0125	1-1/4"	32	46	10	150	30	450	0.9	130	1.3	60
PERSEUS 150-0150	1-1/2"	38	53	10	150	30	450	0.9	150	1.7	60
PERSEUS 150-0200	2"	51	66	10	150	30	450	0.9	300	2.3	60
PERSEUS 150-0250	2-1/2"	64	80	10	150	30	450	0.9	350	2.9	60
PERSEUS 150-0300	3"	76	93	10	150	30	450	0.9	400	3.8	60
PERSEUS 150-0350	3-1/2"	89	106	10	150	30	450	0.9	500	4.3	60
PERSEUS 150-0400	4"	102	120	10	150	30	450	0.9	550	5.6	60
PERSEUS 150-0500	5"	127	146	10	150	30	450	0.9	650	7.0	60
PERSEUS 150-0600	6"	152	172	10	150	30	450	0.9	800	10.1	60
PERSEUS 150-0800	8"	203	233	10	150	30	450	0.9	1000	15.8	60
PERSEUS 150-0801	10"	254	284	10	150	30	450	0.9	1150	19.8	30
PERSEUS 150-0802	12"	305	340	10	150	30	450	0.9	1250	29.0	30

TYPE PERSEUS 300

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
PERSEUS 300-0075	3/4"	19	32	20	300	60	900	0.9	90	0.9	60
PERSEUS 300-0100	1"	25	38	10	150	30	450	0.9	100	1.1	60
PERSEUS 300-0125	1-1/4"	32	46	10	150	30	450	0.9	130	1.4	60
PERSEUS 300-0150	1-1/2"	38	53	10	150	30	450	0.9	150	1.7	60
PERSEUS 300-0200	2"	51	67	10	150	30	450	0.9	300	2.3	60
PERSEUS 300-0250	2-1/2"	64	80	10	150	30	450	0.9	350	2.9	60
PERSEUS 300-0300	3"	76	94	10	150	30	450	0.9	400	4.0	60
PERSEUS 300-0350	3-1/2"	89	108	10	150	30	450	0.9	500	4.7	60
PERSEUS 300-0400	4"	102	121	10	150	30	450	0.9	550	6.1	60
PERSEUS 300-0500	5"	127	149	10	150	30	450	0.9	650	8.2	60
PERSEUS 300-0600	6"	152	175	10	150	30	450	0.9	800	11.2	60
PERSEUS 300-0800	8"	203	234	10	150	30	450	0.9	1000	17.6	60
PERSEUS 300-0801	10"	254	289	10	150	30	450	0.9	1200	24.8	30

Applications

Hard wall hose used for suction and delivery of abrasive materials, such as quartz sand, coal cuttings, cast steel shot, cement, and mud, etc., can withstand vacuum pressure -0.9bar. Inner tube standards meet standard ISO4649: Abrasion $\leq$ 80mm³.

Technical Description

Tube: Black synthetic rubber, wear resistance

Reinforcement: High tension textile cord, helix steel wire, anti-static copper wire available

Cover: Black fabric impression surface, synthetic rubber, wear resistance and aging resistance, ozone resistance

Temperature Range: -25°C to +75°C



Concrete Pump



TYPE HERACLES

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
HERACLES-0200	2"	51	71	85	1275	200	3000	350	3.0	60
HERACLES-0250	2-1/2"	64	89	85	1275	200	3000	400	4.7	60
HERACLES-0300	3"	76	103	85	1275	200	3000	450	6.7	60
HERACLES-0400	4"	102	126	85	1275	200	3000	700	8.9	60
HERACLES-0500	5"	127	154	85	1275	200	3000	900	11.1	60
HERACLES-0600	6"	152	184	85	1275	200	3000	1000	15.1	60

Applications

Delivery of cement paste, mortar and other highly abrasive materials. Used for concrete placement from end of concrete pump truck, grouting from pile driver.

Advantage

Hose with long service life due to outstanding wear-resistance tube, hose flexibility make it easy to handle, safety factor is 2.5 times, which make concrete pumping operation safe. Hose is with free twisting hose construction, withstand vacuum pressure while reverse flushing operation.

Technical Description

Tube: Black smooth conductive rubber, abrasion resistant synthetic rubber

Reinforcement: High-tension textile

Cover: Black, abrasion resistant synthetic rubber, aging resistance

Temperature Range: -30°C to + 100°C

Standards

EN 12001, GB/T 27571



Bulk Material SD



TYPE HADES 150

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
HADES 150-0150	1-1/2"	38	53	10	150	30	450	0.9	230	1.7	60
HADES 150-0200	2"	51	66	10	150	30	450	0.9	230	2.4	60
HADES 150-0300	3"	76	93	10	150	30	450	0.9	360	3.8	60
HADES 150-0350	3-1/2"	89	106	10	150	30	450	0.9	450	4.4	60
HADES 150-0400	4"	102	120	10	150	30	450	0.9	540	5.7	60
HADES 150-0500	5"	127	146	10	150	30	450	0.9	675	7.2	60
HADES 150-0600	6"	152	172	10	150	30	450	0.9	900	9.8	60

TYPE HADES 300

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		N.P.	MBR	Weight	Length
				(bar)	(psi)	(bar)	(psi)	(bar)	(mm)	(kg/m)	(m)
HADES 300-0150	1-1/2"	38	53	20	300	60	900	0.9	230	1.7	60
HADES 300-0200	2"	51	67	10	150	30	450	0.9	230	2.4	60
HADES 300-0300	3"	76	94	10	150	30	450	0.9	360	4.1	60
HADES 300-0350	3-1/2"	89	107	10	150	30	450	0.9	450	4.4	60
HADES 300-0400	4"	102	121	10	150	30	450	0.9	540	5.7	60
HADES 300-0500	5"	127	149	10	150	30	450	0.9	675	7.2	60
HADES 300-0600	6"	152	175	10	150	30	450	0.9	900	9.8	60

Applications

Inhalation and discharge of high abrasion materials at negative pressure -0.9bar. Inner tube standards meet standard ISO4649:
Abrasion $\leq 60\text{mm}^3$.

Advantage

Hose with long service life due to outstanding wear-resistance tube, hose flexibility make it easy to handle, safety factor is 2.5 times, which make concrete pumping operation safe. Hose is with free twisting hose construction, withstand vacuum pressure while reverse flushing operation.

Technical Description

Tube: Black synthetic rubber, thicker tube, wear resistant

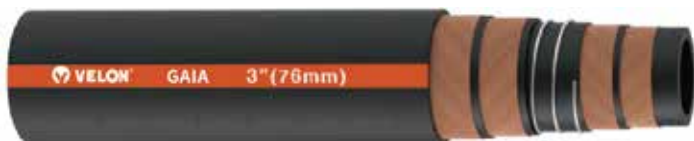
Reinforcement: High tensioner textile fabric with helix steel wire, anti-static wire available upon request

Cover: Black fabric impression surface, synthetic rubber, wear resistance, anti-aging

Temperature Range: -25°C to +75°C



Mud SD



TYPE GAIA

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
GAIA-0150	3"	76	102	40	600	160	2320	500	5.00	100
GAIA-0200	4"	102	128	40	600	160	2320	612	5.78	100

Applications

Delivery grout, liquid mud, concrete, etc.

Technical Description

Tube: Black NR/SBR rubber, abrasion and oil resistant

Reinforcement: High tension textile fabric, steel helix wire

Cover: Black CR/NR rubber, ozone and abrasion resistant

Temperature Range: -30°C to +99°C



Dry Ice



TYPE NEREUS

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)			
NEREUS-0038	3/8"	10	20	10	150	40	600	70	0.27	100
NEREUS-0050	1/2"	13	25	10	150	40	600	100	0.40	100
NEREUS-0063	5/8"	16	28	10	150	40	600	120	0.46	60
NEREUS-0075	3/4"	19	33	10	150	40	600	150	0.52	60
NEREUS-0100	1"	25	38	10	150	40	600	200	0.69	60
NEREUS-0200	2"	51	66	10	150	40	600	400	1.60	40

Applications

Conveying dry ice for spraying, cleaning, and deburring. Low temperature resistance to -60°C, super abrasion resistance, anti-static, softness at low temperature. The ultra-low temperature nitrogen dioxide crystal dry ice particles are used for high-speed jet cleaning without any chemical cleaning agent. No damage to the items being cleaned, clean and environmentally friendly, pollution-free, safe and reliable.

Technical Description

Tube: Black, smooth, ultra-low temperature resistant, abrasion resistant, anti-static special synthetic rubber

Reinforcement: High-strength polyester fiber thread

Cover: Special synthetic rubber resistant to low temperature, abrasion resistance, anti-aging and anti-static

Temperature Range: -60°C to +90°C

Standards

HG/T3037-2008, conductive rubber, resistivity $R < 106 \text{ ohmm}$, RoHS.



Floating



TYPE POSEIDON 150

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
POSEIDON 150-0200	2"	51	116	10	150	40	600	450	3.9	100
POSEIDON 150-0300	3"	76	141	10	150	40	600	600	5.1	100
POSEIDON 150-0400	4"	102	168	10	150	40	600	750	6.5	100
POSEIDON 150-0500	5"	127	195	10	150	40	600	900	9.3	100
POSEIDON 150-0600	6"	152	240	10	150	40	600	1100	11.6	100
POSEIDON 150-0800	8"	203	297	10	150	40	600	1400	16.8	100

TYPE POSEIDON 300

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		MBR (mm)	Weight (kg/m)	Length (m)
POSEIDON 300-0200	2"	51	116	20	300	80	1200	450	3.9	100
POSEIDON 300-0300	3"	76	142	10	150	40	600	600	5.5	100
POSEIDON 300-0400	4"	102	172	10	150	40	600	750	7.4	100
POSEIDON 300-0500	5"	127	199	10	150	40	600	900	10.4	100
POSEIDON 300-0600	6"	152	244	10	150	40	600	1100	12.5	100
POSEIDON 300-0800	8"	203	302	10	150	40	600	1400	17.6	100

Applications

For delivery materials between drilling platform and supply ship, such as fuel oil, barite, mud and portable water and so on. Floating layer bonded with hose body make more effective and stable floating than hose wear floating jacket.

Technical Description

Tube: Selected option according to functional requirement

Reinforcement: High-tension textile fabric and anti-static copper wire

Floating Layer: Microcellular foaming synthetic materials

Cover: Black, chloroprene rubber, oil resistance, wear resistance, ozone and aging resistance, seawater resistance

Temperature Range: -30°C to +100°C

Floating Capacity: Min. 25%



Ammonia Nitrate Placement



TYPE HEPHAESTUS

No.	Size (inch)	I.D. (mm)	O.D. (mm)	W.P.		B.P.		Weight (kg/m)	Length (m)
				(bar)	(psi)	(bar)	(psi)		
HEPHAESTUS-0100	1"	25.4	40.6	27	400	108	1600	1.1	121
HEPHAESTUS-0150	1-1/2"	38.1	53.3	27	400	108	1600	1.2	121
HEPHAESTUS-0175	1-3/4"	44.5	66.3	27	400	108	1600	2.0	121
HEPHAESTUS-0200	2"	50.8	72	27	400	108	1600	2.4	121
HEPHAESTUS-0250	2-1/2"	63.5	82.7	27	400	108	1600	2.7	121
HEPHAESTUS-0300	3"	76.2	94.2	27	400	108	1600	2.7	121

Applications

A heavy duty hose for pellet transfer in blasting hole loading.

Technical Description

Tube: Black nitrile synthetic rubber (static dissipating / static conductive)

Reinforcement: Spiral-plyed synthetic fabric, PE Helix

Cover: Black nitrile synthetic rubber (static dissipating / static conductive) (wrapped impression)

Temperature Range: -32°C to +93°C



TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers													
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.5t	17-4PH	Alloy20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]	
Acetaldehyde	C ₂ H ₄ O	B	B	C	C	A	A	A	A	A	A					D	A	D	A	A	B	D	A	A	A		A	A	
	HCl	B	B	B	B	B			A							A						A							
	Acetamine	B	A	D	B	A	A		A		A					A				D		A						B	
	Acetate Solvents	C	D	D	C	A			A		A	C	B			C		C	A	D	A								
	Acetic Acid (aerated)	C	D	D	C	A			A		A	C								D	A								
	Acetic Acid (air free)	C	D	D	C	A	A	A	A	A		A	C			C		D	A	D	A								
	Acetic Acid (crude)	C	D	D	D	A	A	A	A	A		A	C			D		D	A	D	A								
	Acetic Acid Glacial	C	D	D	D	A	B	A	A	A		A	C	C		D	B	C	A	D	A	B	A	A	A			A	
	Acetic Acid (pure)	C	D	D	D	A	A	A	A	A		A	C	D		D		D	A	D	A	C	A					A	
	Acetic Acid 10%	C ₂ H ₄ O ₂	C	D	D	D	A	A	A	A		A	C	C		D	B	D	A	B	A	A	A	A	A	A			A
Acetic Acid 80%	C ₂ H ₄ O ₂	C	D	D	D	A	A	A	A		A	C	D		D	C	D	A	D	A	C	A				B		A	
	-	B	D			C	C	B	C	A						D			A										
	Acetic Anhydride	C	D	D	D	B	B	B	B	A		A	C	B		D	C	D	A	D	D	A	A	A				A	
	Acetone	A	A	A	A	A	A	A	A	A		A	A	B		D	A	D	A	B	A	D	A	A	A			A	
	Other Ketones	A	A	A	A	A	A	A	A	A						D	B	D		B		D	A					A	
	Acetyl Chloride	C	B	A	C	A	A	A	A	A			D	C		D	D	D		D	B	B	A					A	
	Acetylene	A	C	A	A	A	A	A	A	A		B	C	A		B	A	A	A	A	B	A	A					A	
	Acid Fumes	-	B	D	D	D	B		B							C				D		A	A					A	
	Acrylonitrile	B	A	A	C	A	A	A	A	B		B	A	A		D	D	D	B	D	A	B	A						
	Air	-	A	A	A	A	A	A	A	A		A	A	A	A		A	A	A	A	A	A	A						
Alcohol, Amyl	C ₅ H ₁₁ OH	B	B	B	B	A	B	B	B	A		A	B	A		C	A	B	A	A	A	A	A						A
	Alcohol, Butyl	A	B	B	C	A	B	A	A	A		B	B	A		B	B	A	A	A	A	A	A					A	
	Alcohol, Diacetone	A	B	B	B	A	B	A	B	A		A	B	A		D	A	D	A	A	A	B	A					A	
	Alcohol, Ethyl	B	B	B	B	A	B	A	B	A		A	B	A		A	A	A	A	B	A	A	A					A	
	Alcohol, Fatty	B	B	B	B	A	B	A	A			B				B			A	A		A	A					A	
	Alcohol, Isopropyl	B	B	B	B	B	B	A	B	A		B	B	B		C	A	A	A	A	A	A	A					A	
	Alcohol, Methyl	C	B	B	B	A	B	A	A	A		A	B	A		B	A	C	A	B	A	A	A					A	
	Alcohol, Propyl	B	B	A	B	A	B	A	A	A		A	B	A		B	A	A	A	A		A	A					A	
	Alumunia	-	A	A						A						A	A			A									
	Aluminum Acetate	Al(C ₂ H ₃ O ₂) ₃	C	C		C	B	B	A	B	A		A				D	A	D		D								
Aluminum Chloride (dry)		C	D	D	D	C	B	D	B	A		C	D	D		B	A	A	A	C	A	A	A					A	
Aluminum Chloride Solution		B	D	D	D	D	C	B	B	A		B	D	C		B		A	A	D	A	A	A					A	

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No Information



TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers											
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.St	17-4PH	Alloy20	Monel	Hastelloy C [®]	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Witon	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]
Aluminum Fluoride	AlF3	C	D	D	D	C	C	B	A	B		C	C	D		A	A	A	A	C	A	A					
	AlH6O3	B	D	D	D	A	A	A	B	A		B	D	A		A	A	A	A	B	A	A					B
Aluminum Nitrate	AlN3O9	D	D	D	D	B	A	A	C	B		A	D	C		B	B	D	A	C	B	A					B
Aluminum Oxalate	C6AlO12·3	B			B	A		A	B	A												A					
Aluminum Potassium Sulfate	AlKO8S2	B	B	C	D	B	C	B	B	C		A	C	C		B	A	B	A	C		A					A
Aluminum Sulfate (Alum)	Al2O12S3	C	C	D	D	B	B	B	C	B		A	C	B		A	A	A	C	A	A	A			A	A	A
Amines	R3-xNHx	C	B	B	C	A	A	A	B	A		B	C	A		A	D	C	D	A	D	A					A
Ammonia Alum	AlH28NO20S2	C			C	A	B	A	B	A		B	C	B		B			A	C							
Ammonia, Anh. Liquid	NH3	A	D	A	B	A	A	A	A	B		B	D	B		B	B	D	A	D	A	B	A			A	A
Ammonia Aqueous	H5NO	B	C	C	C	A		A	B	A		B	D	A		A	D	B	C	A	A	A				A	
Ammonia Gas (hot)	H3N	B	C	B	B	B	A	A	A	A		B	D			A		D		D	A						
Ammonia Liquor	-	A	C	A	B	B	A	A	A	B			D	C		D	A	D	A	D							
Ammonia Solutions	-	B	D	B	C	A	A	A	A	A		B	D			C	A	D	A	D	A						
Ammonium Acetate	C2H3O2NH4	A	D	D	D	B	A	A	B	A			D	B		C	A	D	A	D							
Ammonium Bicarbonate	NH4HCO3	B	B	C	C	B		B	B	B				B		B	A	A		B							
Ammonium Bromide 5%	NH4Br	D				B		B	B										B								
Ammonium Carbonate	(NH4)2CO3	B	D	B	B	B	B	B	B	B		A	D	B		C	A	B	A	D	A	A					
Ammonium Chloride	NH4Cl	C	C	D	D	C	C	B	B	B		C	D	D		B	A	A	A	C	A	A				A	A
Ammonium Hydroxide 28%	NH4OH	C	D	C	B	B	A	A	B	B		A	D	B		B	A	B	A	C	A	A			B		A
Ammonium Hydroxide Conc.	NH4OH	C	D	C	B	B	A	A	C	B		A	D	A		C	A	B	A	D	A	B			D		
Ammonium Monosulfate	-	D				B	A	B	B	B				A					D								
Ammonium Nitrate	(NH4)(NO3)	B	D	D	B	A	A	A	A	A		A	D	A		A	A	B	A	C	A	A					A
Ammonium Oxalate 5%	C2H8N2O4	A		A	D	A	A	A	B	A			D	A		D	A			B							
Ammonium Persulfate	H8N2O8S2	D	D	C	D	A	A	A	D	B		B	C	A		D	B	B	A	D		B					
Ammonium Phosphate (mono)	(NH4)3PO4	B	C	D	D	B	A	A	C	A		A	C	C		C	A	A		B	A						
Ammonium Phosphate Di-basic	(NH4)2HPO4	B	C	D	C	B	B	B	C	A		A	D	B		A	A	A	A	B		A					A
Ammonium Phosphate Tri-basic	-	B	C	D	C	B	B	B	C	A		A	C	B		A	A		B								
Ammonium Sulfate	(NH4)2SO4	C	D	C	C	C	C	B	A	B		A	D	C		B	A	C	A	C	A	A					A
Ammonium Sulfide	(NH4)2S	B	D	D	D	B	B	B	B	A			D	C		A	A	D		B							
Ammonium Sulfite	(NH4)2SO4,	D	C	C	C	A	B	B	D	A			B	B		B	B	C	D	D							A
Amyl Acetate	CH3COO(CH2)5CH3	A	A	C	C	B	A	A	A	A		A	B	A		D	B	C	A	C	A	A		A		A	B

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No Information



TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.St	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin®	Peek®	PVDF	Teflon® and Reinforced	PCTFE	UHMWPE®	Vespe®	PFA	KEL-F®
Amyl Chloride	C5H11Cl	B	B	A	B	B	B	A	A	A		C	A	B		D	D	D	A	A	A	A	A					
Aniline	C6H7N	C	D	C	C	A	A	A	B	B		C	C	A		D	B	C	A	B	A	B	A	A	D	A	A	
Aniline Dyes	-	C	C	C	C	A	A	A	A				C	A		C	B	B		B			A					
Apple Juice	-	B	C	D	D	B		A	A							A	B	A		A	A		A					
Aqua Regia (Strong Acid)	-	D	D	D	D	C	C	B		C		B	D	D		D	D	D	D	D	D	A	A	A	D	A	A	
Aromatic Solvents	-	A	A	C	B	A		A	B							D	D	A		A	A	A	A				A	A
Arsenic Acid	AsH3O4	D	C	D	D	B	B	A	A	B		B	C	A		A	B	A	A	D	A	A	A					
Asphalt Emulsion	-	C	B	B	B	A	A	A	B	A			B	A		D	D	A	A	B	A	A	A					A
Asphalt Liquid	-	C	B	B	B	A	A	A	B	A			A			C	D	A	A	B	A							A
Barium Carbonate	CBaO3	C	B	B	B	B	A	A	A	A		A	B	B		B	A	A	A	A	A	A	A					A
Barium Chloride	BaCl2	D	B	C	C	B	A	A	A	A		A	B	A		A	A	A	A	A	A	A	A					A
Barium Cyanide	Ba(CN)2	D	C		C	B	A	B	C	A			C	A		B	A	A		B								
Barium Hydroxide	BaH2O2	D	D			A		A	B											A								
Barium Hydroxide	Ba(OH)2	D	D	C	C	A	A	A	A	B		B	D	B		A	A	A	A	D	A	A	A					A
Barium Nitrate	Ba(NO3)2	B	D	A	A	A	B	A		A		A	D	B		A	A	A	A	B								A
Barium Sulfate	BaSO4	C	B	B	C	B	A	A	A	A		A	C	C		A	A	A	A	B	A	A	A					A
Barium Sulfide	BaS	D	C	C	C	B	A	A	A	A		B	D	C		A	A	A	A	A	A	A	A					
Beer	-	A	B	C	D	A	A	A	A	A		A	A	A		B	A	A	A	B	A	A	A	A	A		A	A
Beet Sugar Liquors	-	A	B	B	B	A	A	A	A	A		A	B	A		A	A	A	A	B	A	A	A					A
Benzaldehyde	C7H6O	B	B	B	C	A	A	A	B	A		A	A	C		D	A	D	A	A	A	A	A	A				A
Benzene (Benzol)	C6H6	B	A	B	B	B	A	A	A	A		A	A	B		D	D	A	A	A	A	A	A	A	A	A	A	B
Benzoic Acid	C7H6O2	B	C	D	D	B	A	A	B	A		A	C	B		C	D	A	A	B	A	A	A	A	A	A	A	
Beryllium Sulfate	BeO4S	B	B		B	B		A	B							B	B	B		A								
Bleaching Powder Wet			B	C	C	C		B	A					B		D	B	B		B								
Blood (meat juices)	-	B	B		D	A	A	A	A	A		A		B	A		A	B	B									
Borax (Sodium Borate)	Na2B4O7·10H2O	C	B	C	A	A	A	A	A	A		B	B	A		A	A	A	A	B		A	A		A			A
Bordeaux Mixture	-					A		A		A						A												
Borax Liquors	-	C	A	C	C	B		A	B	A						A	A	A		B								
Boric Acid	BH3O3	C	C	D	D	C	B	A	A	A		A	B	B		B	A	A	A	A	A	A	A	A	A	A	A	A
Brake Fluid	-	B	B	A	B	A	A	A	A	A			B	A		D	B	D		B	A							
Brines (saturated)	-	C	B	C	C	B	B	B	B	A			A	B		A	A	A		A								A

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TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers						Polymers										
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.5t	17-4PH	Alloy20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]
	Br	D	C	D	D	D	C	B	B	A	A	B	D	D		D	D	A	D	D	D	A	A	A	D		A	A
	-	A	B	A	B	A		A	A	A		A	A	A		B	C	A		A								
	C ₄ H ₆	A	B	B	B	A	A	A	A	B		A	C	A		C	C	A	A	A	A	A	A					A
	C ₄ H ₁₀	A	A	B	C	A	A	A	A	A		A	B	A	A	B	D	A	A	A	A	A	A		A			A
	-	A			D	A		A					D	C		B	A	A		A								
	-	A	D	D	D	A		A	D	A			D	A		A	B	A	A	A	A							A
	C ₆ H ₁₂ O ₂	B	B	B	B	B	A	A	A	A		B	B	C		D	C	D		B	A	A	A	A	A		A	
	C ₄ H ₈	A	A	A	A	A	A	A	A	A			A	A		D	D	D	A	A	A	A	A					C
	C ₄ H ₈ O ₂	B	B	D	D	B	A	A	A	A		A	C	C		C	C	C	A	B	A	A	A					A
	CaH ₂ O ₆ S ₂	C	D	D	D	B	B	A	D	B		A	C	B		A	D	A	A	D	A	A	A					A
	CaCO ₃	C	D	C	D	B	A	A	A	A		A	C	A		B	B	A	A	A	A	A	A					
	Ca(ClO ₃) ₂	B	C	B	C	B		A	A	B		B	B	B		B	B	B	B	C		A	A					
	CaCl ₂	D	C	C	C	B	B	A	A	A		A	B	C		A	A	A	A	D	A	A	A	A	A	A	A	A
	Ca(OH) ₂	C	D	C	C	B	A	A	A	A		A	C	B		A	A	A	A	D	A	A				D		A
	Ca(NO ₃) ₂	C	B	B	C	B	B	A	A	B		B	B	C		B	B	A	B	D	A	A	A			A		B
	Ca ₃ (PO ₄) ₂	D	C		C	B		B								B	B	B		B								
	Ca ₂ SiO ₄	D	C		C	B		B		A						B	B	B		A								
	CaO ₄ S	C	B	B	C	C	A	A	A	B		A	B	B		A	B	A	A	D	A	A	A			A		A
	-			B		A		A								B				A								
	C ₁₀ H ₁₆ O	C	C	B	C	B	A	A	C				B			B	B	B		A	A							
	C ₁₂ H ₂₂ O ₁₁	B	B	A	B	A	A	A	A	A			A	A		B	B	A	B	A		A						
	-	B	B	D	B	B	B	B	C	A						B	B	B	A	A								
	-	A	D	B	C	A	B	A	B				B	A		A	A	A	A	A								
	CS ₂	B	C	B	B	B	A	B	B	B			B	A		D	D	A		A								
	CO ₂	B	B	B	B	A	A	A	A	A		A	B	A		C	B	B	A	A	A	A				A		A
	CH ₂ O ₃	A	D	B	D	B	A	A	A	B		B	C	A		B	B	A	A	B	A	A	A	A	A	A	A	A
	CO	A	A	B	B	A	A	A	A	A			A	A		B	B	B	A	A	A	A	B			A		B
	CCl ₄	C	B	C	C	A	A	A	A	A		A	B	B		D	D	B	B	B	A	A	A	A	B	A	A	D
	CCl ₄	D	C	D	D	B	A	B	B	A		A	C	A		D	D	B	B	B		A	A	A	B	A	A	B
	-	C	C		C	B		B	C	B						B	B	B		A								
	Castor Oil	A	A	A	A	A	A	A	A	A			B	A		A	B	A	A	A	A							

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TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.5t	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin®	Peek®	PVDF	Teflon® and Reinforced	PCTFE	UHMWPE®	Vespe®	PFA	KEL-F®
Caustic Potash	HKO	C	C	B	B	A	A	A	A	A			C			B			A	D	A		A	A	A			
	HNao	D	D	B	B	A	A	A	A	A			B	A		C	B	C	A	D	A	A	A	A	A		A	
Cellulose Acetate	-	B	B		B	B			B	B						D	B	D		C							A	
	China Wood Oil (Tung)	A	C	C	C	A	A	A	A	A				A		A	D	A		A								
Chlorinated Solvents	-	C	C	C	C	C		A	B	A			A			D	D	C		A	B							
Chlorinated Water		D	D	C	D	C	C	A	C	B		A	C	C		B	C	A	B	D	D	A	A	A			A	
Chlorine Gas (dry)	Cl2	C	D	C	B	B	B	B	A	A		C	D	B		C	D	B	A	D	D	A	A	A	B	A	A	D
Chlorobenzene (dry)	C6H5Cl	B	B	B	C	A	A	A	A	A		B	B	A		D	D	A	A	C	C	B	A	A	A	A	B	A
Chloroform (dry)	CHCl3	C	B	C	C	A	A	A	A	B		A	B	A		D	D	B	A	B	A	C	A	A	B	A	A	C
Chlorophyll (dry)	-	B	B		B	B		A	B	A						B	B	B										
Chlorosulfonic Acid (dry)	H5O3Cl	C	C	C	B	C	C	B	A	B		A	C	D		D	D	D	A	D	B	D	A	A	D	A	A	A
Chrome Alum	CrKO852	C	C	B	C	A		A	B							B	B	B		B								
Chromic Acid <50%	CrH2O4	D	D	D	D	C	B	B	C	C		A	D	B		D	C	C	C	D	D	A	A	A	A	D	A	A
Chromic Acid>50%	CrH2O4	D	D	D	D	C	C	B	D	C		B	D	C		D	C	C	C	D	D	A	A	A	A	D	A	B
Chromium Sulfate	Cr2O1253	B	C		D	B	B	C	B					B		B	B	B		C								
Cider	-	B			D	A	A	B	A	A			A	A		A	A	A		A								
Citric Acid	C6H8O7	C	D	D	D	C	A	A	A	A		A	D	B		B	B	A	A	C	A	A	A	A	A	A	A	A
Citrus Juices	-	C	B	D	D	B	A	A	A	A						A		A		A								
Coca Cola Syrup	-					A		A						A		B		B		A	A							
Coconut Oil	-	B	B	C	C	A	A	A	B	A			B	A		A	A	A		A	A	A	A	A	A			
Coffee	-	A	A	C	C	A	A	A	B	A		A	A	A		A	A	A		A								
Coffee Extracts (hot)	-	A	A	C	C	A		A	A											A								
Coke Oven Gas	-	A	C	B	B	A	A	A	B				B			C	D	B		C								
Cooking Oil	-	B	B	B	B	A		A	A							A	D	A		A	A							
Copper Acetate	C4H6CuO4	D	D	C	D	A		A	B	A			C			C	B	D		C	A	A	A	A				
Copper Carbonate	CCuO3	D				A		A	A											A	A	A	A	A				
Copper Cyanide	CCuN	D	D	C	D	A		A	C	A		A	D	B		A	B	B	A	B	A	A	A	A				
Copper Nitrate	Cu(NO3)2	D	D	D	D	B		A	D	B		B	D	A		A	B	A	A	A	A	A	A	A				A
Copper Sulfate	CuO4S	D	D	D	D	B		A	D	A		A	D	B		A	A	A	A	D	A	A	A	A	A			A
Corn Oil	-	B	B	B	C	B	A	A	B	A			B	A		A	C	A		A	A				A			
Cotton seed Oil	-	B	B	B	C	B	A	A	B	A		A	B	A		A	C	B		B	A				A			

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TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.St	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin°	Peek°	PVDF	Teflon° and Reinforced	PCTFE	UHMWPE°	Vespeel°	PFA	KEL-F°
Cresol	C7H8O	A	C	A	C	B	A	B	B	B		B	A	A		D	D	D	A	D	D	B	A		A			B
Creosote Oil	-	B	C	B	B	A	A	A	A	B	A		A	C		C	D	A		D	A		A		A			
Cresylic Acid	C7H8O	C	B	C	D	B	A	A	A	A		A	C	A		D	D	B	A	D	A	C	A			A		
Crude Oil, sour	-	A	C	C	C	B	A	A	B	A	A		D	B	A	A	D	A		A	A		A		A			
Crude Oil, sweet	-	A	B	A	B	A	A	A	A	A	A		B	A	A	A	D	A		A	A		A		A			
Cupric Nitrate	CuN2O6	D				A		A	D											D								
Cutting Oils, Water Emulsions	-	A	A	B	B	A	A	A	A				A	A		A		A		A	A							
Cyanide Plating Solution	-	D	D		D	B		B	D	A						B	B	B		D								
Cyclohexane	C6H12	A	A	A	A	A	A	A	A	A		A	A	A		C	D	A	A	A	A	A	A	A	A		A	A
Cyclohexanone	C6H10O	A	B	B	B	A	A	A	B	B		B	A	A		D	B	D	A	A	A	C	A	A	A		B	
Detergents, Synthetic	-	B	B	A	B	B	A	A	A	A		A	B	A		B	B	A	A	A	A	A	A	A	A		A	
Dextrin	C18H32O16	B	A	B	B	B		A	B				A			B	B	B		A								
Dichloroethane	C2H4Cl2	B	B		C	A	B	B	B	A		B	D	B		D	D	B	A	B	A	A	A					A
Dichloroethyl Ether	C4H8Cl2O	B	B	A	B	B		B		A			B	A		D	C	D		C	A			D				
Diesel Oil Fuels	-	A	A	A	A	A	A	A	A	A		C	A	A	A	A	D	A	A	A	A	B	A	A	A		B	
Diethylamine	C4H11N	B	C	C	B	A	A	A	B	A		B	A	A		B	C	D	A	B	A	B	A				A	
Diethyl Benzene	-					B		B								D	D	A		C								
Diethylene Glycol	C4H10O3	B	B	A	A	A	B	A	B	B		A	A	B		A	A	B	A	B	A							
Diethyl Sulfate	(C2H5)2SO4	A	B	A	B	B		B	B	A			A			C	C	B		A	A							
Dimethyl Formamide	C3H7NO	B	B	B	B	A	A	A	A	A			C	A		B	B	D		C	A	A	A		D		A	
Dimethyl Phthalate	C10H10O4					A										B	B	D		C	A							
Dioxane	C4H8O2	B	A	A	B	B	A	B	A	A			A			D	C	D	A	C	A							
Dipentane (Pinene)	C10H16	A	A		A	A		A					A	A		B	D	B		A								
Disodium Phosphate	HNazO4P	B	B		B	B		A	B				B			B		B		A								
Dowtherm	C24H20O	A	A	B	B	A	A	A	A	A			A	A		D	D	A	A	A	B							
Drilling Mud	-	B	B	A	A	A	A	A	A	A			B	A	A	B	A	A		A								
Dry Cleaning Fluids	-	A	C	B	B	A		A	A							B	A	B		D								
Drying Oil	-	C	C	C	B	B		B	B							B	A			A								
Enamel	-		A														A			B								
Epsom Salts	MgO4S	B	A	C	A	B	A	B	B	B		A	B	A		B	A	A	A	B							A	
Ethane	C2H6	A	B	B	A	A	A	B	B	A			A	A	A	A	D	A	A	B	A							

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Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.5t	17-4PH	Alloy20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]
Ethers	H ₂ O	B	A	B	B	A	A	A	A	B		A	B	B	A	A	D	C	C	A	C	A	C	A	A	A	A	C
Ethyl Acetate	C ₄ H ₈ O ₂	B	B	B	B	B	A	A	A	B		A	B	B		D	C	D	A	A	A	B	A	A	A	A	A	B
Ethyl Acrylate	C ₅ H ₈ O ₂	B	B	A	B	A	A	A	A	A			A	A		D	C	D		B	A		A					
Ethyl Benzene	C ₈ H ₁₀	A		A	B	B	B	A	A	A			B	B		C	D	A		A	A		A					
Ethyl Bromide	C ₂ H ₅ Br	B	A		B	B		C	B				B			B	B	B		A			A					
Ethyl Chloride (dry)	C ₂ H ₅ Cl	B	B	B	B	A	A	A	A	C		A	B	A		C	C	B	A	B	A	B	A					B
Ethyl Chloride (wet)	C ₂ H ₅ Cl	D	C	C	D	B	B	B	B	C			B	C		C	B	B		B	A		A					
Ethylene Chloride	C ₂ H ₄ Cl	B			C	A	B	A	A	B		B	A	B		D	D	D	A	B		B	A		A	A	B	B
Ethylene Dichloride	C ₂ H ₄ Cl ₂	B	B	B	A	A	A	A	A	C		B	B	B		D	D	D	A	C	A	B	A		B	A	A	B
Ethylene Glycol	C ₂ H ₆ O ₂	A	B	B	B	A	A	A	A	B		A	B	B	A	A	A	A	A	B	A	A	A		A	A	A	A
Ethylene Oxide	C ₂ H ₄ O	D	D	B	C	B	B	A	B	A		B	B	B		D	C	D	A	C	A	A						A
Ethyl Ether	C ₄ H ₁₀ O	B	B	A	B	A	B	A	A	B		A	B	B		D	D	D		B	A	B	A					B
Ethyl Silicate	C ₈ H ₂₀ O ₄ Si	B	B		B	B		B	B	A						B	B	B		A			A					
Ethyl Sulfate	C ₄ H ₁₀ O ₄ S	A			D	B	A	A	A					D		B	C	A	A	A		A		A				A
Fatty Acids	R-COOH	C	C	D	D	B	A	A	A	A		A	C	B		B	D	A	A	B	A	A	A	A	A	A	A	A
Ferric Hydroxide	Fe(OH) ₃	C			D	A		A	A	B						B				A								
Ferric Nitrate	Fe(NO ₃) ₉	D	D	D	D	B	A	A	D	A		A	D	B		A	A	A	A	D	A	A	A					A
Ferric Sulfate	Fe ₂ O ₁₂ S ₃	D	C	D	D	B	A	A	D	B		A	D	B		A	A	A	A	D	A	A	A			A	A	A
Ferrous Ammonium Citrate	C ₆ H ₁₅ +4Fe(x)N(y)O ₇	B				B		B												A			A					
Ferrous Chloride	Cl ₂ Fe	D	D	D	D	D	D	D	D	C		A	C	D		A	A	A	A	D	A	C	A					C
Ferrous Sulfate	FeH ₂ O ₄ S	C	C	D	D	B	A	A	A	B		A	C	B		A	A	A	A	D	A	A	A	A			A	A
Ferrous Sulfate (Saturated)	-	C	C	C	C	A		A	B	B		A				C	B	B	A	B			A					
Fertilizer Solutions	-	D	C	A	A	A	A	B	B	A			D	A		B	A	A		A			A					
Fish Oils	-	B	B	A	B	A	A	A	A	A			A	A		A	D	A		A			A					
Flue Gases	CO	C	B	A	B	A	A	A	A	A			A			C	D	C		C			A					
Fluoboric Acid	BF ₄ H	C			C	B	B	A	A	A		D	C	B		A	A	A	A	B		B	A		A	A	B	B
Fluorosilicic Acid	FeH ₂ Si	D	B	D	D	B	B	A	A	B		D	B	C		C	C	C	A	B		C	A		A	A	C	C
Formaldehyde (cold)	CH ₄	B	B	B	B	A	A	A	A	A		B	B	B		B	B	D	A	A	A	A	A	A	A	A	A	A
Formaldehyde (hot)	CH ₄	B	B	C	D	C	B	B	B	B				B		B				A	A	A	A	A	A	A	A	A
Formic Acid (cold)	CH ₂ O ₂	B	D	D	D	B	A	A	A	A		B	B	C		D	A	B		C	B	A	A	A	A	A	A	B
Formic Acid (hot)	CH ₂ O ₂	B	D	D	D	B	B	B	B	B		C	B			D		A	A	D	B	A	A	A	A	A	A	A

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Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.5t	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin°	PEEK°	PVDF	Teflon° and Reinforced	PCTFE	UHMWPE°	Vespe°	PFA	KEL-F°
Freon Gas (dry)	-	B	A	B	B	A	A	A	A	B				A		C	C	C	A	A		A						
Freon 11, MF, 112, BF	CCl3F	D	A	B	C	A	A	A	A	A		B	B	A		C	C	C	A	D	D	A	A					A
Freon 12, 32, 114, 115	CCl2F2	B	A	B	B	A	A	A	B	A		B	B	B		B	B	B	A	B	A	C	A					C
Freon 21, 31	CHCl2F	B	A	B	C	A	A	A	B	A			B	C		D	D	D	A	A								
Freon 22	CHClF2	D	A	B	C	A	A	A	B	A		B	B	A		D	D	D	A	A	A	A	A					A
Freon 113, TF	C2Cl3F3	D	A	B	C	A	A	A	B	A		C	B	C		B	D	D	A	A	B		B		A			
Freon (wet)	-	D	B		D	C	B	B	B				B			B	B	D	A	B		A						
Fruit Juices	-	B	D	D	A	A	A	A	B	A	A	A	B	A		A	A	A		C	A	A	D	A	A		A	A
Fuel Oil	-	B	B	A	B	A	A	A	B	A			A	A		B	B	A		A								A
Fumaric Acid	C4H4O4							A									B	B	A									
Furfural	C5H4O2	A	A	A	B	A	A	A	A	A		A	B	A		D	C	D	A	B	A	D	A					D
Gallic Acid 5%	C7H6O5	B	C	D	D	B	B	B	B	A		B	B	B		B	C	A	B	A	B	A						A
Gas, Manufactured	-	C	B	B	B	B		B						A	A	A		A		A								
Gas, Natural	-	B	B	B	B	A	A	B	A					A	A	A	D	A		A	A							
Gas, Odorizers	-	A	A	B	B	B		A	B					A	A	B		A		A								
Gasoline (aviation)	-	A	A	A	B	A	A	A	A	A				A		C	D	A	A	A				A				A
Gasoline (leaded)	-	A	A	A	A	A	A	A	B	A		A	A	A		C	D	A	A	A	A	B	A	A				A
Gasoline (motor)	-	A	A	A	B	A	A	A	B	A						C	D	A	A	A				A				A
Gasoline (refined)	C12H13N5O6S2	A	B	B	B	A		A	B	A						C	D	A	A	A				A				
Gasoline (sour)	-	A	B	B	B	A		A	C	A			B			C	D	A	A	A				A				
Gasoline (unleaded)	-	A	A	A	B	A	A	A	B	A		A	A	A		C	D	A	A	A	A	B	A	A				A
Gelatine	-	A	C	D	D	A	A	A	B	A		A	B	A		A	A	A	A	B	A	A	A	A		A		A
Glucose	C6H12O6	A	A	B	B	A	A	A	A	A		A	A	A		A	A	A	A	A	A							
Glue	-	A	A	A	B	B	A	A	A	A		A	A	A		A	B	B	A	A								
Glycerine (Glycerol)	C3H8O3	A	B	B	B	B	A	A	A	A		A	A	A		C	A	A	A	A	A	A	A	A		A	A	A
Glycol Amine	-	C	D	A	B	B	A	A	A	B			C	B		A	D	C	A	C								
Glycol	C2H6O2	B	B	B	B	B	A	A	A	B			A	A		A	B	A		C	A	A	A	A				A
Graphite	CH4	B	B		C	B		A	B					A		B	B	B		A								
Grease	-	B	B	A	A	A	A	A	A	A			B	A		A	D	A		B								
Helium Gas	He	B	B		B	A		A	B	A				A		A	B	B		A								
Heptane	C7H16	A	A	A	A	A	A	A	A	A		A	A	A		A	D	A	A	A	A	A	A					A

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No Information



TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.St	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin°	Peek°	PVDF	Teflon° and Reinforced	PCTFE	UHMWPE°	Vespele°	PFA	KEL-F°
Hexane	C6H14	A	A	A	A	A	A	A	A	A	A					A	D	A	A	A	A	A						A
Hexanol, Tertiary		A	A	A	A	A	A	A	A	A						A	D	B		A								
Hydraulic Oil Petr. Base	-	A	B	A	A	A	A	A	A							A	D	A	B	B	A			A				
Hydrazine	H4N2	C	D	C	D	B	A	A	B	A			C	A		C	B	C	A	B	D	A		A	D	A		
Hydrocyanic Acid	CHN	C	D	D	C	A	B	A	B	A		B	D	B		B	B	A	A	C	D	A		A	A	A		
Hydrofluoric Acid 20%	HF	D	D	D	D	D	C	B	A	B		D	C	D		D	D	A	A	D	D	B		A	C			B
Hydrofluoric Acid 50%	HF	D	D	D	D	D	D	C	B	C		D	C	D		D	D	B	A	D	D	B		A	C			B
Hydrofluoric Acid 75%	HF	D	D	D	D	D	D			C		D	C	D		D	D	B	A	D	D	B		A	C			B
Hydrofluoric Acid 100%	HF	D	D	D	D	D	D			B		D	C	D		D	D	B	A	D	D	A		A	C			A
Hydrofluosilicic Acid	H2SiF6	D	B	D	D	C	B	B	B	C		D	B	C		B	B	A	B	B		B						B
Hydrogen Gas (cold)	H	A	A	B	A	A	A	A	A	A		A	A	A		A	B	A		A	A	B						B
Hydrogen Gas (hot)	H	C	B	B		B		A		A						B	B			A								
Hydrogen Peroxide Conc.	H2O2	C	D	D	D	B	A	A	C	B	A	B	D	B		D	C	B	C	D	A	B		A	A			A
Hydrogen Peroxide, Dilute	H2O2	C	D	D	D	B	A	A	B	A	A	B	D	B		A	B	A	B	D	A	A		A	A			A
Hydrogen Sulfide (dry)	H2S	C	C	C	C	C	B	B	B	B		A	D	C		C	A	D	A	C	A	B		A	A			A
Hydrogen Sulfide (wet)	H2S	C	C	C	C	C	C	B	C	B		B	D	C		C	B	D	A	C	A	B		A	A			A
Hypo (Sodium Thiosulfate)	Na2S2O3	B	C	D	D	B	A	B	B				B	B		C	A	A		A	A							A
Illuminating Gas	-	A	A	A	A	A		A	A							A	D	A		A								
Ink-Newsprint	C11H16O3P+	C	C	D	D	A	B	A	B	A			B	C		A	B	A		B								
Iodoform	CHI3	C	C	B	C	A	A	A	C	B		B	C	A		D	A	A		A								
Iso-Butane	C4H10	A	A	B	A	A	A	A	A	A			A	A		B	D	A		A	A							
Iso-Octane	C8H18	A	A	A	B	A	A	A	A	A			A	A		A	D	A	A	A	A	B		A				B
Isopropyl Acetate	C5H10O2	B		B	C	B	A	A	A	A			B	B		D	D	D	A	D	A							
Isopropyl Ether	C6H14O	A	A	A	B	A	A	A	A	A			A	A		C	D	D	A	D	A	B		A				A
JP-4 Fuel	-	A	A	A	A	A	A	A	A	A		A	A	A		A	D	A	A	A	A							A
JP-5 Fuel	-	A	A	A	A	A	A	A	A	A		A	A	A		B	D	A	A	A	A							A
JP-6 Fuel	-	A	A	A	A	A	A	A	A	A		A	A	A		A	D	A	A	A	A							A
Kerosene	-	B	A	B	B	A	A	A	A	A		A	A	A		A	D	A	A	A	A							A
Ketchup	-	C	C	C	C	A	A	A	A				C			A		A		A	A							A
Ketones	CH2O	B	A	A	A	A	A	A	A			A	A	A		D	D	D	A	D	A	D		A				C
Laquer (and Solvent)	-	A	C	D	C	B	B	A	A	A		B	A	B		D	D	D	A	D	A							

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No Information



TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S.St	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin°	Peek°	PVDF	Teflon° and Reinforced	PCTFE	UHMWPE°	Vespe°	PFA	KEL-F°
Lactic Acid Concentrated (cold)	C ₃ H ₆ O ₃	C	D	D	D	A	A	A	A	B		A	D	B		B	B	A	A	C	A	B	A	A	A	A		
	C ₃ H ₆ O ₃	C	D	D	D	B	B		B	B		A	D	B		C	C	B	A	C	A	C	A	A	A	A		B
	C ₃ H ₆ O ₃	B	D	D	D	A	A	A	A	A		A	C	B		B	A	A	A	B	A	B	A	A	A	A		
Lactic Acid Dilute (cold)	C ₃ H ₆ O ₃	B	D	D	D	A	B		B	B		A	C	B		C	C	B	A	B	A	C	A	A	A			
Lactic Acid Dilute (hot)	C ₃ H ₆ O ₃	B	B		C	B		B	B							B	B	B		A								
Lactose	C ₁₂ H ₂₂ O ₁₁	B	B		C	B		B	B							B	B	B		A								
Lard	-	A	B		A	A	A	A	B	A		A	A	A		B	C	A	A	A		A						
Lard Oil	-	B	B	C	C	B		A	B	A			C	A		A	B	A	A	A		A						
Lead Acetate	C ₄ H ₆ O ₄ Pb	D	C	C	D	B	B	B	B	B		A	C	B		A	B	D	A	B	A	A					A	A
Lead Sulfate	O ₄ PbS	D	C	C	D	B	B	B	B	B			B	C		B	B	B	A	A								
Lecithin	C ₄₆ H ₈₉ NO ₈ P+	B	C	C	C	B		B	B	A			A	A		D	D	B		A								
Linoleic Acid	C ₁₈ H ₃₂ O ₂	B	C	C	C	B	B	A	A	A			C	B		B	D	B	A	B	A	A						
Linseed Oil	-	A	A	A	A	A	A	A	A	A	A	A	B	A		A	D	A		A	A			A				
Lithium Chloride	CLi	C	B	C	B	B	A	A	A	A			B	A		B	B	B	A	A	A	A						
Liquid Petroleum Gas (LPG)	C ₃ H ₇ NO ₂	A	A	A	B	B		B	B	A			A	A		A	D	A		A	A							
Lubricating Oil Petroleum Base	C ₆ H ₆	A	A	A	A	A	A	A	A	A			A	A		A	D	A	A	A	A	A						
Ludox	O ₂ Si	C	D	A	B	B	A	A	A	A			C			B	B	B		B								
Magnesium Bisulfate	HMgO ₄ S+	D	B	B	B	A	A	A	B				A	A		B	B	B	B	A								
Magnesium Bisulfate	-	C	D		D	B		B	B							B	B	B		A								
Magnesium Carbonate	CMgO ₃	A	B	B	B	A	A	A	A	B		A	B	B		B	B	B		A	A	A						
Magnesium Chloride	Cl ₂ Mg	D	C	C	D	C	D	C	B	A		A	B	D		A	A	A	A	A	B	A		A	A	A		A
Magnesium Hydroxide	H ₂ MgO ₂	D	B	B	B	A	A	A	B	A		A	B	B		A	A	A	A	A	A	A						A
Magnesium Hydroxide (hot)	H ₂ MgO ₂	D	C	B	B	A	A	A	A	B				B		B		A		A								
Magnesium Nitrate	MgN ₂ O ₆	B	C	B	B	A		A	B	A		A	C	B		B	A	B		A	A	A						
Magnesium Sulfate	MgO ₄ S	B	B	B	B	A	A	A	B	B		A	C	A		A	A	A	A	A	A	A					A	
Maleic Acid	C ₄ H ₄ O ₄	B	B	C	C	B	B	A	B	B		A	B	A		B	D	A	A	A	A	A	A	A	A	A	A	
Maleic Anhydride	C ₄ H ₂ O ₃	B	B		B	B	A	B	B	A				A		D	D	B		D		A						
Malic Acid	C ₄ H ₆ O ₅	B	B	D	D	B	A	B	B	B	A	A	C	A		A	D	A	B	A		A						
Malt Beverages	-					A		B	A							A	B	A		A								
Manganese Carbonate	-	B				B		A								B				A								
Manganese Sulfate	MnO ₄ S	B	D	B	D	A	B	A	A	A		A	A	B		B	B	B	A	B	A	A						B
Mayonnaise	-	D		D	D	A	B	A	B	A			D	B		A		A		A		A						

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No Information



TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S.St	17-4PH	Alloy20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Wiron	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespele [®]	PFA	KEL-F [®]
Meat Juices	-	B	D		D	A	C	C		A						B	A	A	C	A		A	A	A			A	
Melamine Resins	C ₃ HaN ₆		D							A			D	C		B	A	A	C	A								
Methanol	CH4O	A	A	A	A	A	A	A	A	A		B	A	A		B	D	B	A	A	A	A	A	A	A			
Mercuric Chloride	Cl2Hg	D	D	D	D	D	C	D	B	A		A	D	D		A	A	C	B	A	A	A	A	A	A	A	B	
Mercuric Cyanide	C2HgN2	D	D	D	D	B	C	A	D	A		A	D	C		A	B	A		A	B	A	B					D
Mercurous Nitrate	HgNO3	D	D	D	D	A	A	A	D	A		A	D	A		B		B	C	A	B	A	A					
Mercury	Hg	C	D	A	A	A	A	A	B	A		A	A	A		A	A	C	A	A	A	A	A	A	A		A	A
Methane	CH4	A	A	A	A	A	A	A	A	A						A	D	A	B	A	A	A	A					
Methyl Acetate	C3H6O2	A	A	B	B	A	A	A	A	A			B	A		D	B	D	A	B	A	C	A					A
Methyl Acetone	C4H8O	A	A	A	A	A	A	A	A	A						D	A	D	B	D		D	A					
Methyl Amine	CH5N	B	C	B	B	A	A	A	C	B			D	A		D	B	D		A	A							
Methyl Bromide 100%	CH3Br	C	C	C	D	B	B	B	B	B			D	B		B	D	A	A	D	B	A						
Methyl Cellosolve	C3H8O2	B	A	B	B	A	A	A	A	A			A	B		C	B	D	A	D	A	A	A					
Methyl Cellulose	-					A		A	B							D			C									
Methyl Chloride	CH3Cl	D	C	A	B	A	A	A	A	A		A	B	A		D	D	B	A	C		A				A		B
Methyl Ethyl Ketone	C4H8O	B	A	A	A	A	A	A	A	A		A	A	A		D	B	D	A	B	B				A			B
Methylene Chloride	CH2Cl2	C	B	B	B	A	A	A	A	A		B	B	B		D	D	C	A	B	A	C		B		A	A	
Methyl Formate	C2H4O2	B		C	B	A	A	A	A	A			A	A		D	B	D		A								
Methyl Isobutyle Ketone	C6H12O	B			B	B	A	A	A	A		A	A	A		D	C	D	A	C	B	D	A					A
Milk & Milk Products	-	C	C	C	D	A	A	A	A	A		A	B	A		A	A	A	A	A	A	A	A	A	A		A	A
Mineral Oils	-	A	A	A	B	A	A	A	A	A		A	A	A		A	D	A	A	A	A				A			
Mineral Spirits	-	A	B	B	B	B	A	B	B	B		B	B	A		A	D	A	A	A	A							A
Mixed Acids (cold)	-	D	D	C	C	B		B	C							D	D	B		D								
Molasses, crude	-	B	B	A	A	A	A	A	A	A		A	A	A		A	B	A	A	A	A	C	A	A	A			A
Molasses, Edible	-	A	B	A	C	A	A	A	A	A			A	A		A	B	A	A	A	A	B	A	A	A			A
Molybdic Acid	H2MoO4					A		A												A								
Monochloro Benzene (dry)	C6H5Cl	B		B	A	A	A	A	A	A			B	B		D	D	B	A	C	B							
Morphine	C17H19NO3	B	B	B	B	A		A	B							D	B	D	A	A					A			
Mustard	C4H8Cl2S	B	A	B	B	A		A	A	A		A	B	A		A	A	A	A	C		A						
Naptha	-	A	A	A	B	A	A	A	A	A		A	A	A		B	D	A	A	B	A	A	A	A			A	A
Napthalene	C10H8	A	B	A	B	A	A	A	A	A		A	A	A		D	D	A	A	R	A	A					A	A

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TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S.St	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin°	Peek°	PVDF	Teflon° and Reinforced	PCTFE	UHMWPE°	Vespe°	PFA	KEL-F°
Natural Gas, Sour	-	B	A	A	B	A	A	A	B	A				A	A	A	D	A		B	A		A					
Nickel Ammonium Sulfate	H ₈ N ₂ NI0 ₈ S ₂	D	D	D	D	A		A	C			D				A	B	B		C	A		A	A				
Nickel Chloride	Cl ₂ NI	D	D	D	D	B	B	A	C	A		A	D	D		A	B	A	A	A	A	A	A	A				A
Nickel Nitrate	N ₂ NI0 ₆	D	D	D	D	B	A	A	C	B		B	C	B		A	A	A	A	C	A	A	A	A				A
Nickel Sulfate	NI0 ₄ S	D	D	D	D	B	B	A	B	C		B	C	B		A	B	A	A	B	A	A	A	A				A
Nicotinic Acid	C ₆ H ₅ NO ₂	A	A	C	C	A		A	B			B				D	D	B		C			A	B				
Nitric Acid 10%	HNO ₃	C	D	D	D	B	A	A	D	B		A	D	A		C	B	A	A	D	A	A	A	A	D		A	B
Nitric Acid 30%	HNO ₃	D	D	D	D	B	B	A	D	A		A	D	A		C	C	A	C	D	B	B	A	A	A		A	B
Nitric Acid 80%	HNO ₃	D	D	D	D	B	C	A	D	B		B	D	A		D	D	B	D	D	D	B	A	A	B		A	B
Nitric Acid 100%	HNO ₃	B	D	D	D	B	C	A	D	B		B	D	A		D	D	B	D	D	D	B	A	A				A
Nitric Acid Anhydrous	-	B	D	D	C	B	D	A	D			D		B		D	D	A	C	D			A					
Nitrobenzene	C ₆ H ₅ NO ₂	B	D	A	A	B	A	B	B	B		A	B	B		D	C	C	B	B	D	B	A	A	A	A	A	B
Nitrogen	N ₂	A	A	A	A	A	A	A	A	A		A	A	A		A	B	A	A	A	A		A					
Nitrous Acid 10%	HNO ₂	D	D	D	D	B	B	B	D	C			C	B		C	A	A		B	B	B	A					B
Nitrous Gases	-	B	D	B	C	A		A	D											B			A	A				
Nitrous Oxide	N ₂ O	B	B	B	C	B	B	B	D	B			C	B		B	A	A	B	A	A	D	A					
Oils&Fats	-	B				A		A								B	D			A		A	A	A		A		
Oils&Animal	-	A	A	A	A	A		A	B	A						A	B	B		A		A	A	A		A		
Oils, Petroleum (refined)	C ₆ H ₆	A	B	A	B	A	A	A	A	A		C		A		A	A	D		B	A		A					
Oils, Petroleum (sour)	C ₆ H ₆	A	C	B	C	A	A	A	A	A		C		A		A	A	D		B			A					
Oils, Water Mixture	-	A	A	B	B	A	A	A	A				A	A		A	D	A		A	A		A					
Olaic Acid	-	B				B		B	A	A							C			D			A					
Oleic Acid	C ₁₈ H ₃₄ O ₂	B	D	C	C	B	A	A	B	B		B	C	A		B	D	C	C	A	C	A	A		A	A	B	
Oleum	H ₂ O ₄ S	C	C	B	D	B	B	B	C	B		D	D	B		D	C	A	C	D	D	D	A			D		A
Oleum Spirits	-	D	D		D	B		B	D							C	D	A		D		C	A					
Olive Oil	-	A	B	B	A	A	A	A	A	A		A	A	A		A	B	A	A	A	A		A	A		A		
Oxalic Acid	C ₂ H ₂ O ₄	C	C	C	D	B	B	B	B	B		A	C	B		C	B	A	A	C	C	A	A	A	A	A	A	D
Oxygen	O ₂	A	A	A	A	A	A	A	A	A		A	A	A		A	B	A	A	D	A		A					
Ozone (dry)	O ₃	A	A	A	A	A	A	A	A	A			A	B		D	A	B	C	C	A	B	A	A	B		A	A
Ozone (wet)	O ₃	B	B	B	C	A		A	A	A			B			D	B	B		C	A	B	A	A	B		A	
Paints & Solvents	-	A	A	A	A	A		A	A					A		D	D	B		A			A					

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TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S.St	17-4PH	Alloy20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]
	Palmitic Acid	B	C	C	C	B	A	A	A	A				B	B	B	A	A	A	A	A	B	A					
	Palm Oil																											
	Paper Pulp	A	B		B	A		A	B								B	B		A								
	Paraffin	A	A	B	B	A	A	A	A	A				A	A		A	D	A	A	A	A	A	A		A		
	Paraformaldehyde	B	B	B	B	B		B	B	A						B	C			A								
	Paraldehyde							B									D		A									
	Pentane	A	A	B	B	B	A	A	A	B				B	B		A	D	A	B	A	A						
	Perchloroethylene (dry)	B	C	B	B	A	A	A	B	A				A	B	D	D	A	A	B	A	A						A
	Petrolatum (Vaseline Petr. Jelly)																											
	Phenol	A	B	C	C	B	A	A	A	A				A	A		A	A	A	B		A						
	Phosphate Ester 10%	C	D	A	C	A		A	A	A				C		D	A			A		A	A	A	A	A	B	
	Phosphate Acid 10%																											
	Phosphoric Acid 50% (cold)	D	D	D	D	C	B	B	D	B				B	D		B	B	A	A	D	B	A	A	A	A	A	
	Phosphoric Acid 50% (hot)	D	D	D	D	C	C	B	D	B				C	D	D	B	B	A	A	D	B	A	A	A	A	A	
	Phosphoric Acid 85% (cold)	D	D	D	D	C	C	B	D	B				B	D	D	C	B	B	A	D	B	A	A	A	A	A	
	Phosphoric Acid 85% (hot)	D	D	D	D	C	D	B	D	B				C	D	D	C	B	A	D	B	B	A	A	A	A	A	
	Phosphoric Anhydride	C		D		A	B	A						D	C	B		D	A	D	A	D						
	Phosphorus Trichloride	C		B	C	A	A	A	A	B				A		D	B	B	A	D		A		A				A
	Phthalic Acid	C	B	D	C	B	A	A	B	A				A	B	B	C	A	B	C	A	B	A	A	A	A	A	
	Phthalic Anhydride	B	B	D	C	B	A	A	B	A				B	A		C	B	A	C	A	A						
	Picric Acid	C	D	D	D	B	B	B	D	B				A	C	B	C	B	A	A	B	A	B	A		A	A	
	Pineapple Juice	A	C	C	C	A		A	A							A		A		A								
	Pine Oil	B	B	B	B	A	A	A	A	A				A	C	A	A	D	A		D	A						
	Pitch (Bitumen)					A		A								C	D		A									
	Polysulfide	C	D		B	B		A	B							B	B	B		C								
	Polyvinyl Acetate	B	B	C	B	B	B	B	B	A				B	A			B		A	A		A					
	Polyvinyl Chloride	B	D		B	B		B	B								B			A								
	Potassium Bicarbonate	C		A	D	A	B	A	B	B				A	C	B		A	A	B	A	B	A			D		A
	Potassium Bichromate	B	B	B		A		A	A							B		B		B	C		A		A			
	Potassium Bisulfate	B		C	C	A		A	C							B	B	A		A								
	Potassium Bisulfite	C	C	D	D	B		B	D							A	B	A		A			A					

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TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.5t	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin®	Peek®	PVDF	Teflon® and Reinforced	PCTFE	UHMWPE®	Vespe®	PFA	KEL-F®
Potassium Bromide	BrK	C	C	C	D	A	B	B	B	B		A	C	B		A	B	A	A	A	A	A	A					A
Potassium Carbonate	CK ₂ O ₃	C	B	B	B	A	A	A	A	A		A	C	B		A	B	A	A	B	A	A			D			
Potassium Chlorate	CKlO ₃	B	B	B	B	A	A	A	A	A		A	C	B		A	B	A	B	B	A	A						A
Potassium Chloride	KCl	D	C	C	B	B	B	A	B	A		A	C	B		A	A	A	A	A	A	A	A		A			A
Potassium Chromate	CrK ₂ O ₄	B	B	B	B	B	A	A	A	A			A	B		B	B	A	A	C		B	A					
Potassium Cyanide	KCN	D	D	B	B	B	A	A	A	A		A	D	B		A	A	A	A	C		A	A		A			A
Potassium Dichromate	Cr ₂ K ₂ O ₇	B	D	C	C	B	A	A	A	B		A	C	B		A	B	A	B	B	A	A	A		D			A
Potassium Ferricyanide	C ₆ FeK ₃ N ₆	C	D	C	C	A	B	A	A	B		A	D	B		A	B	A	A	C	A	B	A					B
Potassium Ferrocyanide	C ₆ FeK ₄ N ₆ +4	C	C	C	C	B	A	A	A	B		A	C	B		A	A	A	A	A	A	A	A					A
Potassium Hydroxide Dilute (cold)	HKO	D	D	B	D	B	A	A	A	A	B	C	D	B		A	A	D	B	C	A	A	A		D			B
Potassium Hydroxide to 70% (cold)	HKO	D	D	C	D	B	B	B	A	B		C	D	B		B	B	D		C	A		A		D			
Potassium Hydroxide Dilute (hot)	HKO	D	D	B	D	B	C	B	A	A		D	D	B		B	A			D	A		A		D			
Potassium Hydroxide to 70% (hot)	HKO	D	D	C	D	B	C	B	A	B		D	D	B		C	B			D	A		A		D			
Potassium Iodide	IK	B	C	B	B	B	A	A	B	B		A	D	A		A	B	A	B	A		B	A					
Potassium Nitrate	KNO ₃	B	B	B	B	B	A	A	A	A		A	B	B		A	B	A	B	B	A	A	A		A			
Potassium Oxalate	C ₂ K ₂ O ₄	B			A	B	B	A		A		A	A	B					B	A			A					
Potassium Permanganate	KMnO ₄	B	B	B	B	A	A	A	A	A	A	A	B	B		A	B	A	C	C	A	A	A		A	D		
Potassium Phosphate (mono)	KH ₂ PO ₄	D	C		C	B	A	B	B	B				A		A	A	A		A			A					
Potassium Phosphate Di-basic	K ₂ HPO ₄	B	B	A	A	A		A	B	B						A	B	A		A			A					
Potassium Phosphate Tri-basic	K ₃ PO ₄	D		A	A	B		B	B							B	B						A					
Potassium Sulfate	K ₂ O ₄ S	B	C	B	B	A	A	A	A	A		A	B	B		A	A	A	A	B	A	A	A				B	
Potassium Sulfide	HK ₂ S+	C	D	D	C	A	B	B	D	B		A	D	B		A	B	A	A	A	A	A	A					A
Potassium Sulfite	K ₂ O ₃ S	B	B	D	C	A	B	A	C	B		A	C	B		B	A	A		A			A					
Producer Gas	-	B	B	B	B	B	A	B	A					A		A	D	A		A			A					
Propane Gas	C ₃ H ₈	A	A	A	A	A	A	A	B	A		A	B	A		A	D	A	A	B	A	A	A					A
Propyl Bromide	C ₃ H ₇ Br	B	B	B	B	A		A	B				B			B	B	B		A			A					
Propylene Glycol	C ₃ H ₈ O ₂	C	B	B	B	B	A	A	A	A		A	A	B		A	B	A	A	B	A		A		A			
Pyridine	C ₅ H ₅ N	B	B	B	B	B	A	A	C	B		B	B	B		D	B	D	A	B	B	D	A	A	A	A	A	B
Pyrolgalic Acid	-	B	B	B	B	B	A	A	A	A		A	A	B		A	B	A	A	D	A	A	A					A
Quench Oil	-	A	B	B	B	A		A	A							A		A		A			A					
Quinine Sulfate (drv)	C ₄₀ H ₅₀ N ₄ O ₈ S				A	A	B	A	B	A				B						A			A					

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TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 5.St	17-4PH	Alloy20	Monel	Hastelloy C°	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin®	Peek®	PVDF	Teflon® and Reinforced	PCTFE	UHMWPE®	Vespe®	PFA	KEL-F°
Resins & Rosins	-	A	A	A	A	A	A	A	A							B		A	A				A					
Resorcinol	C ₆ H ₆ O ₂	A	B	C	C	A	A	A	A		A	B	A			D		B		B			A					
Road Tar	C ₂ H ₄ O ₃	A	A	A	A	A		A	A							B		A		A			A					
Roof Pitch	-	A	A	B	B	A		A										A		A			A					
Rosin Emulsion	C ₁₅ H ₂₀ O ₆	A	A	A	A	A	A	A	A		A	A	A			D		C		C	A		A					
RP-1 Fuel	-	B	B	C	C	B		A	B	A						A	B	A		B			A					
Rubber Latex Emulsions	-	C	C	D	D	A	B	B	C	A		A	B	B		A	B	A	C	A	A		A					B
Rubber solvents	-	B	B	C	C	B		A	A			A	B	A		A		A		A			A					
Salad Oil	-	B	B		D	B	B	B	B	B		A	B	B		A	A	B	A	A			A					
Salicylic Acid	C ₇ H ₆ O ₃					B		B											C									
Salt (NaCl)	NaCl+H ₂ O	B	D	C	D	B	B	B	A	A	A	A	A	C	B	A	A	B	A	A			A	A	A		A	A
Salt Brine	NaCl	C	C	C	D	B	A	B	B	A			C	B	B	A	B	B		B	A		A					
Sauerkraut Brine	-	A	B	A	B	A	A	A	A	A			A	A			A	A	A	A			A					
Sea Water	-	B	B		B	B		B								B		B	A	A	A		A	A			A	
Sewage	-	D			C	C	A	A	B	A			D	D					D				A					A
Shellac	-	D	D	D	D	B		B	B	A			D	D		B		B		D			A					
Silicone Fluids	Si	D	D	D	D	A	B	A	D	A		A	D	B		C	A	A	A	A	A		A	A	A		A	A
Silver Bromide	AgBr	B			A		A		A			A				A	A	A					A					
Silver Cyanide	CAgN	C	B	B	B	A	A	A	B	A		A	B	A		A	A	A	A	A	A		B					
Silver Nitrate	CAgN	B	B	C	C	B	B	A	B	A		A	B	B		B	A	D	A	B	A		A					A
Silver Plating sol.	-	D	B	B	C	A	A	B	B	B		B	B	A		A	A	A	A	B	A		A					
Soap Solutions (Stearates)	C ₂₁ H ₄₂ O ₄	B				B		B	A	A		A	A			B		B	A	B	A		B					
Sodium Acetate	C ₂ H ₄ O ₂	C	B	C	C	B	A	A	A	A		A	B	A		A	A	A	A	A	A		A			D		A
Sodium Aluminate	AlNaO ₂	B				A	A	A	A	B			C			D			C	A	A		A					
Sodium Benzoate	C ₇ H ₆ O ₂	D	D	D	D	A	A	A	B	B		B	C	A		A	B	A	A	B			A					A
Sodium Bicarbonate	CHNaO ₃	C	B	D	D	A	B	B	C	B		A	B	B		A	B	A	A	C			A					
Sodium Bichromate	Cr ₂ Na ₂ O ₇	C	B	C	C	B	A	A	A	A		B	A	B		A	B	A	A	A			A					A
Sodium Bisulfate 10%	H ₂ NaO ₄ S	D	B	C	D	B	B	B	B	B		A	B	C		A	B	A	A	A	A		A					B
Sodium Bisulfite 10%	HNaO ₃ S	D	B	D	D	A		B	B	B						A	B	A	D				A					
Sodium Borate	C ₁₅ H ₂₂ O ₂	B	B	C	C	B		B	B							A	B	A		A			A					
Sodium Bromide 10%	BrNa	B	B	C	D	B		B	B							A	B	A	A	A			A					

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Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S.St	17-4PH	Alloy20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]
Sodium Carbonate (Soda Ash)	CNa2O3	D	B	B	B	B	A	A	B	A		A	B	A		A	B	A	A	B	A	A	A	A	A	D	A	A
Sodium Chlorate	CINaO3	C	B	B	C	B	B	B	C	B		A	B	A		A	B	A	C	A	A	A	A					
Sodium Chloride	CINa	B	C	B	C	B	B	B	B	A		A	B	B		A	A	A	A	B	A	A	A	A	A	A		A
Sodium Chromate	CrNa2O4	B	C	B	B	A	A	A	A	B			B	B		A	B	A	B	D	A	A	A					A
Sodium Citrate	C6H5Na3O7	D				A		B		A										A								
Sodium Cyanide	CNNa	D	D	B	B	A	B	A	B	A		A	D	A		A	A	A	A	A		A	A		A		A	A
Sodium Ferricyanide	C6FeNa6Na3	B			C	B	B	A	B	B			C	B					A	A		A				A		
Sodium Fluoride	FNa	B	C	D	D	B	B	A	B	A		A	B	D		A	B	A	A	A	A	A	A					
Sodium Hydroxide 20% (cold)	NaOH	D	C	A	A	A	A	A	A	A		A	A	B		A	B	B	A	B	A	A	A	A	A	D		A
Sodium Hydroxide 20% (hot)	NaOH	D	C	B	B	A	B	B	B	A		A	B			B	B	C	A	C		A	A	A	A	D		
Sodium Hydroxide 50% (cold)	NaOH	D	D	A	B	A	A	B	A	A		A	D	B		A	B	C	A	C	A	A	A	A	A	D		B
Sodium Hydroxide 50% (hot)	NaOH	D	D	B	B	A	B	B	B	B			D			B	C	C	A	C		A	A	A	A	D		
Sodium Hydroxide 70% (cold)	NaOH	D	D	C	B	A	A	B	A	A		A	D	C		B	C	D	A	D	A	A	A	A	A	D		A
Sodium Hydroxide 70% (hot)	NaOH	D	D	C	B	A	B	B	B	B			D			D	C	D	A	D		A	A	A	A	D		
Sodium Hypochlorite (Bleach)	CINaO	D	D	D	D	D	D	D	D	A		C	D	D		B	C	B	B	D	B	A	A	A	A	D		A
Sodium Hyposulfite	Na2S2O4	B				B		B	B	B										A								
Sodium Lactate	C3H5NaO3	D				A		A	B										A	A								
Sodium Metaphosphate	Na6O18P6	C	D	C	B	B	A	A	B	A			B	A		A	A	A	A	B	A	A	A					
Sodium Metasilicate (cold)	Na2O3Si	D	B	B	C	A	A	A	A	A				A		B	B	B		D	A							
Sodium Metasilicate (hot)	Na2O3Si	D	B	C	D	A	A	A	A	A										D			A					
Sodium Nitrate	NNaO3	B	B	B	B	A	B	A	B	B		A	B	B		C	A	A	C	A	A	A	A	A	A	A		A
Sodium Nitrite	NNaO2	A	B	B	B	A	A	A	B	B			B	A		C	A	B		B	A		A					
Sodium Perborate	BNaO3	C	D	B	C	C	A	A	A	A			B	B		C	A	A	C	B	A		A					A
Sodium Peroxide	Na2O2	C	C	C	D	B	A	A	A	B			D	A		C	A	A	A	D	A	A	A	A	B	A		A
Sodium Phosphate (mono)	NaH2PO4	D	C	B	D	B	A	A	B	A		A	C	B		B	A	A		B	A		A					
Sodium Phosphate Di-basic	Na2HPO4	D	C	C	C	B	A	B	B	A		A	C	A		A	A	A	A	A	A		A					
Sodium Phosphate Tri-basic	Na3PO4	D	C	C	C	B	A	B	B	A		A	C	A		B	A	A		A			A					
Sodium Polyphosphate	Na6O18P6	D	D		D	B	B	B	B	A		A	C	B		B	A	A	A	B		A	A					A
Sodium Salicylate	C7H5NaO3				A	A		A								A			C									
Sodium Silicate	Na2O3Si	B	C	B	B	B	A	A	A	A		A	D	A		A	A	A	A	C	A	A	A	A	A	A		A
Sodium Silicate (hot)	Na2O3Si	C	D	C	C	B	B	B	B	B			D				B		A	C			A	A	A	A		A

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Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 S.St	17-4PH	Alloy20	Monel	Hastelloy C [®]	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Witon	Flexible Graphite	Delrin [®]	Peek [®]	PVDF	Teflon [®] and Reinforced	PCTFE	UHMWPE [®]	Vespe [®]	PFA	KEL-F [®]
Sodium Sulfate	Na2O4S	A	B	B	B	A	A	A	A	A	A		A	B	B	A	A	A	A	B	A	A	A			A		A
Sodium Sulfide	HNaS	D	D	C	B	B	A	A	A	B		A	D	B		A	A	A	A	B	A	A	A	A	A	A	A	B
Sodium Sulfite	NaO3S-	C	C	B	A	A	A	A	C	A		A	B	B		A	A	B	A	A		A						A
Sodium Tetraborate	C15H22O2	C	D		A	A	A	A	B				B	A		A	A	A	A	B			A					
Sodium Thiosulfate	Na2S2O3	A	D	C	C	B	A	B	B	B		A	B	A		A	A	A	A	C	A	A	A					A
Soybean Oil	-	B	B	C	C	A	A	A	A	A		A	A	A		A	B	A		D								
Starch	C27H48O20	B	B	B	B	A	A	A	A	A			B	A		A	C	A		A	A	A	A	A		A	A	A
Steam (212°F)	-	B	B	A	A	A	A	A	A	A			B	A	A	D	B	C	A	D	A							
Stearic Acid	C18H36O2	B	C	C	C	B	A	A	A	A		A	B	B		A	B	A	A	A	A	A	A					
Styrene	C8H8	A	A	B	B	A	A	A	A	A			B	A		D	D	B	A	A	A							
Sugar Liquids	-	A	A	B	B	A	A	A	A	A		A	A	A		A	A	A	A	A	A							
Sugar, Syrups & Jam	-	B	B	B	C		A	A	A	A		A	C	A		A		A	A	A	A	A	A	A	A	A		A
Sulfate Black Liquor	H2O4S	D	C	C	C	B	A	B	B	B			D	B		C	A	B	A	D	A	A	A					
Sulfate Green Liquor	H2O4S	D	C	C	C	B	A	B	B	B			D	B		C	A	B	A	D	A	A	A					
Sulfate White Liquor	H2O4S	D	C	C	C	B	B	B	C	B			D	B		C	A	B	A	D	A	A	A	A				
Sulfur	S	C	C	C	C	B	A	A	B	A			D	A		D	C	B	A	B	A	A	A	A				A
Sulfur Chloride	SCl	D	D	D	D	D	C	D	B			D	C	D		D	C	A	C	D	A	B	A					A
Sulfur Dioxide (dry)	SO2	B	B	B	B	A	A	B	B	A		A	B	C		D	B	A	A	B	A	A	A	A	A	A	A	A
Sulfur Dioxide (wet)	SO2	B	D			B	C	B	A	A		A	D	D		D	B		A	B	A	B	A	A	A	A	A	A
Sulfur Hexafluoride	SF6	A	B			A		A		C						B	B	B		D	A							
Sulfur, Molten	-	A	D	C	B	B	A	A	C	B						D	B	B		D								
Sulfur Trioxide	SO3	A	D	B	B	B	B	A	A	A		C	C	A		D	B	B	C	D	A	D	A		D			A
Sulfur Trioxide (dry)	SO3	A	C	B	B	B	B	B	B	B		D	B	D		D	B	A	D	D					D			A
Sulfuric Acid 0 to 77%	H2SO4	D	D	D	D	C	C	B	C	A		C	D	D		B	C	A	B	D	D	A	A	A	A	B		A
Sulfuric Acid 100%	H2SO4	D	D	C	C	C	C	B	C	B		D	D	C		D	C	B	D	D	D	A	A	A	A	D		A
Sulfurous Acid	H2O3S	C	D	D	D	B	B	B	B	B		A	D	B		C	C	A	A	C	B	B	A					A
Tall Oil	-	C	B	B	B	A	A	A	A	A			B	A		B	D	A		A								
Tannic Acid (Tannin)	C27H24O18	C	B	C	C	B	B	B	B	B		A	B	B		B	A	A	A	B	A	B	A	A	A	A	A	A
Tanning Liquors	C27H24O18	A	A			A	A	A	A	A		A	A	A		B	B	A	A	B								
Tar & Tar Oils	C2H4O3	B	A	A	A	A	A	A	A	A			A	A		C	D	A		A	A							
Tartaric Acid	C4H2O6	B	D	D	D	A	A	A	A	B		A	B	C		C	B	A	A	B	A	B	A	A	A	A	A	A

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No Information



TECHNICAL DATA

Chemical Compatibility Table

Media	Chemical Formula	Metals										Elastomers				Polymers												
		Aluminum	Brass	Carbon Steel	Ductile Iron / Cast Iron	316/316Ti/321 SS	17-4PH	Alloy 20	Monel	Hastelloy C	Inconel 625	Titanium	Bronze	304 Stainless Steel	Duplex	Buna N (Nitrile)	EPDM/EPR	Viton	Flexible Graphite	Delrin	PEEK	PVDF	Teflon and Reinforced Teflon	PCTFE	UHMWPE	Vespele	PFA	KEL-F
	Tetraethyl Lead	B	B	B	C	B	A	A	A			A	A	A		B	D	A	A	A	A		A					
	Toluol (Toluene)	A	A	A	A	A	A	A	A			A	A	A	A	D	D	B	A	C	A	B	A		B	A		B
	-	A	C	B	C	A	A	A	A			B	A			A	A	A	A	B	A	A						A
	Transformer Oil	A	B	A	B	A	A	A	A							A		A	A	A	A							
	Tributyl Phosphate	A	A	A	A	A	A	A	A						A	D	B	D	A	A			A		A			
	Trichlorethylene	B	A	B	C	B	A	A	A			B	B	B		D	D	B	A	C	A	B	A		A	A	A	A
	Trichloroacetic Acid	D	B		D	D	C	B	B	A		D	B	D		C	B	C	A	D	A	B	A		A		A	A
	Triethanolamine	B		C	C	B	A	A	A			C	A	A		C	A	D		A	A	A			A			
	Triethylamine		B	A		B		B	A				A			B	A	C	A	D		B	A					A
	Trisodium Phosphate	D		A	B	A	A	A	A				C	B		A	A	B	A	A	A	A				D		
	Tung Oil	B	B	B	B	A	A	A	A				B	A		A	D	A		A	A							
	Turpentine	A	C	B	B	B	A	A	A			B	B	A		B	D	A	A	A	A	A			A		A	A
	Urea	B	B	C	C	B	A	A	B	B		A	C	B		C	B	C	A	A	A	A			A		A	
	Uric Acid	C				A	B	A		B		A	B	B					A	B								
	Varnish	A	B	C	C	A	A	A	A				A	A		C	D	B	A	A	A							A
	Vegetable Oils	A	B	A	B	A	A	A	A				B	A		A	C	A		A	A		A					A
	Vinegar	D	C	D	D	A	A	A	A	A		A	C	A		C	A	C	A	B	A	B	A			A	A	A
	Vinyl Acetate	B	B	A	B	B	A	B	B	A			C	B		D	B	C	A	C	A	B	A					
	Water (distilled)	A	B	C	D	A	A	A	A	A		A	A	A		A	A	B	A	B	A	A	A		A	B	A	A
	Water (fresh)	A	B	C	C	A	A	A	A	A		A	A	A		A	A	B	A	A	A	A	A			B	A	A
	Water (acid mine)	D	D	D	D	B	A	A	B	B		A	C	B	B	A	A	D	A	A		A	A				A	A
	Waxes	A	A	A	A	A		A	A	A						A	C	A		A	A							
	Whiskey & Wines	C	B	D	D	A	A	A	A	A			A	B	A	A	A	A	A	A	A	A						A
	Xylene, Xylol (dry)	A	A	B	B	A	A	A	A	A		A	A	B		D	D	B	A	A	A	A		B				A
	Zinc Bromide	D	B		D	B		B	B	A				D		B	B	B	A				A					
	Zinc Hydrosulfite	D	C	A	B	A		A	B	B				D	A	A	A	A	C									
	Zinc Sulfate	D	C	C	D	B	A	A	B	B		A	C	B		A	A	A	A	C	A	A			A		A	A
	Zinc	C				A			A					A			A	A					A					

Ratings: A - Excellent B - Good C - Poor D - Do not use Blank - No Information



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