

Chemical Compatibility for 100R7 & 100R8



Notes on the Chemical Resistance Table

The fluid resistance tables are simplified rating tabulations based on immersion tests at ambient temperature 25°C. Higher temperatures tend to reduce ratings. Since final selection depends on pressure, fluid and ambient temperature and other factors, no performance guarantee is expressed or implied. The indications do not imply any compliance with standards and regulations and do not refer to possible changes of colour, taste or smell. For food and drinking water specially approved materials have to be used. For fluids not listed or for advice on particular applications, please consult Transfer Oil. Hose applications for these fluids must take into account legal and insurance regulations.

The chemical resistance indicated does not express or imply approval by certain institutions.

For gas applications, the cover should be pin-pricked. Chemical resistance does not imply low permeation rates.

The indication of chemical resistance does not imply any special food compatibility; it refers only to the chemical resistance of the material.

CLASSIFICATION CODE

A: The fluid has a minimum or absent effect

B: The fluid has a weak or moderate effect

C: The fluid has a serious effect

-: Not available

CHEMICAL PRODUCT	POLYESTER	POLYAMIDE 6	POLYAMIDE 12	POLYURETHANE
Acetylene	A	-	-	-
Ammonia 10%	-	A	A	C
Ammonium Carbonate, 10%	-	B	-	
Ammonium Chloride, 10%	A	A	A	-
Ammonium Hydroxide	-	-	-	C
Ammonium Sulfate	B	-	-	-
Amyl Acetate	B	A	B	C
Amyl Alcohol	A	A	A	C
Aniline	C	B	B	C
Antimony Chloride, 10%	-	C	-	-
Astm Fuel A	A	A	A	-
Astm Fuel B	A	A	A	-
Astm Fuel C	B	-		-



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CHEMICAL PRODUCT	POLYESTER	POLYAMIDE 6	POLYAMIDE 12	POLYURETHANE
Astm Oil N. 1	A	A	A	B
Astm Oil N. 3	A	B	B	-
Atrazine	A	-	-	-
Barium Chloride, 10%	-	C	-	A
Barium Sulfate, 10%	-	A	-	A
Beer	A	A	A	A
Benzene	B	A	A	C
Benzoic Acid, 10%	-	B	B	-
Borax Solutions	A	A	A	A
Boric Acid, 10%	A	B	A	A
Bromine (Anhydrous)	C	C	C	C
Bromine Water, 25%	-	A	-	-
Butane	A	A	A	A
Butyric Acid, 10%	-	C	B	-
Butyl Acetate	B	A	A	C
Butyl Alcohol	-	A	A	C
Calcium Chloride, 5%	A	A	A	A
Calcium Hypochlorite, 5%	A	C	-	C
Calcium Thiocyanate	-	C	-	-
Carbon Dioxide	A	A	A	A
Carbon Disulfide	B	A	A	-
Carbon Monoxide	A		-	A
Carbon Tetrachloride	B	A	B	C
Carbonic Acid, 10%	A	A	-	A
Chlorine (Dry)	C	C	C	C
Chlorine (Wet)	C	C	C	C
Chloroacetic Acid, 10%	C	C	C	C
Chlorobenzene	C	A	C	C



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CHEMICAL PRODUCT	POLYESTER	POLYAMIDE 6	POLYAMIDE 12	POLYURETHANE
Chloroform	C	C	C	-
Chlorosulfonic Acid	C	C	C	C
Chromic Acid, 10%	C	C	C	C
Citric Acid Solutions	A	B	-	B
Copper Chloride, 10%	A	C	-	A
Copper Cyanide	-	-	-	A
Copper Sulfate Solutions	A	-	-	A
Cottonseed Oil	A	A	-	A
Cresol	-	C	-	C
Cyclohexane	A	A	A	B
Dibutyl Phthalate	A	A	A	C
Diethyl Sebacate	A	-	-	B
Dioctyl Phthalate	A	-	-	B
Ethanolamine	-	-	-	C
Ethyl Acetate	B	A	A	C
Ethyl Alcohol	A	A	A	B
Ethylene Chloride	C	A	B	B
Ethylene Glycol	A	A	A	B
Ethylene Oxide	A	-	-	C
Ferric Chloride Solutions	-	C	-	A
Fluorine	C	C	C	C
Formaldehyde, 40%	B	B	B	C
Formic Acid	B	C	C	C
Freon R 407C	A	A	-	C
Freon R134a	A	A	-	-
Gasoline	B	A	A	-
Glycerin	A	A	A	B

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CHEMICAL PRODUCT	POLYESTER	POLYAMIDE 6	POLYAMIDE 12	POLYURETHANE
Glycolic Acid	-	C	-	-
Hexane	A	A	A	B
Hydrazine	C	-	-	C
Hydrochloric Acid, 10%	B	C	C	C
Hydrogen	A	A	A	A
Hydrogen Peroxide, 5%	-	C	B	-
Hydrogen Sulfide, 5%	A	C	C	-
Isooctane	A	A	A	B
Isopropyl Alcohol	A	A	B	-
Lactic Acid, 10%	-	B	A	-
Linseed Oil	A	A	A	-
Mercury	A	A	A	A
Methyl Alcohol	A	A	A	C
Methyl Chloride	C	C	C	C
Methyl Ethyl Ketone	B	A	A	C
Methylene Chloride	C	B	C	C
Mineral Oil	A	A	A	A
Naptha	A	A	A	C
Napthalene	B	A	A	B
Nitric Acid, 10%	B	C	C	C
Nitric Acid, 30%	C	C	C	C
Nitrobenzene	C	B	B	C
Nitromethane	-	A	A	-
Oil Fiat Tutela Lhm	A	-	-	-
Oil Kluber Summit Hy Syn Fg 22	A	-	-	-
Oil Panolin 9632	A	-	-	-
Oil Panolin Hlp Synth	A	-	-	-



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CHEMICAL PRODUCT	POLYESTER	POLYAMIDE 6	POLYAMIDE 12	POLYURETHANE
Oil Pentosin Super Dot 4	-	A	A	-
Oleic Acid	A	A	A	B
Oleum, 20-25%	C	C	C	C
Palmitic Acid	A	A	-	A
Perchloric Acid, 10%	-	C	-	-
Perchloroethylene	C	A	A	C
Petrol	B	A	A	B
Phenol	C	C	C	C
Phosphoric Acid (10%)	-	C	-	
Phosphoric Acid, 50%	-	C	-	
Potassium Carbonate, 20%	-	A	-	-
Potassium Carbonate, 20%	-	A	-	-
Potassium Chloride, 90%	-	A	-	A
Potassium Hydroxide, (10%)	B	B	B	C
Potassium Permanganate, 5%	C	C	C	C
Potassium Thiocyanate	-	C	-	-
Pydraul 312	A	A	A	C
Sea Water	A	A	A	A
Shell Brake Fluid Dot4		A	A	-
Silicone Oils	A	A	A	A
Skydrol 500B	A	A	-	C
Soap Solution	A	A	A	A
Sodium Acetate, 60%	-	A	-	C
Sodium Bicarbonate	-	A	A	-
Sodium Carbonate	-	A	A	-



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CHEMICAL PRODUCT	POLYESTER	POLYAMIDE 6	POLYAMIDE 12	POLYURETHANE
Sodium Chloride, 10%	A	A	A	A
Sodium Hydroxide, 10%	A	A	A	B
Sodium Hydroxide, 20%	A	A	A	B
Sodium Hydroxide, 50%	B	C	C	C
Sodium Hypochlorite, 5%	A	C	B	C
Sodium Nitrate, 5%	-	A	-	-
Sodium Sulfate, 90%	-	A	-	A
Sodium Sulfide	-	A	-	-
Steam (100°C)	C	C	C	C
Sulfur Dioxide	-	C	-	-
Sulfuric Acid > 50%	C	C	-	C
Sulfuric Acid, 10%	A	C	B	C
Sulfuric Acid, 20 - 50%	A	C	B	C
Sulfurous Acid, 10%	B	C	-	C
Tannic Acid, 10%	A	-	-	A
Tetrafluoro Propane	-	C		-
Tetrahydrofuran	B	A	-	C
Toluene	B	A	A	C
Trichloroethylene	C	B	B	C
Triethanolamine	C	-	-	C
Trisodium Phosphate	A	-	-	-
Water	A	A	A	A
Xylene	B	A	A	C
Zinc Chloride, 10%	A	B	A	-



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