

Chemical Resistance Guides

Many new materials have been developed to handle the wide range of modern chemicals being used in industry today. Many of these materials are now being used in the construction of Tigerflex™ hose.

The Chemical Resistance Guides which appears on the following pages have been prepared to assist the user in the selection of the correct hose for the application.

These recommendations are based on laboratory and test reports which are, to the best of our knowledge, complete and accurate. However, the degree of chemical resistance of any given material depends upon many variables, including such factors as length of exposure, temperature, pressure, fluid velocity, and chemical concentration.

Therefore, no guarantee is expressed or implied by our publication of these Chemical Resistance Guides. If an element of doubt exists, we advise that a sample of the specific hose selected be obtained and tested under actual conditions.

Furthermore, listings in these Chemical Resistance Guides do not imply conformance to any U. S. Department of Agriculture (USDA), Food and Drug Administration (FDA) or any other federal, provincial or state laws which may be applicable when handling food products. For information on the conformance of any specific hose product with FDA, USDA, or 3-A Sanitary Standards, please refer to the notes accompanying the information and specifications for each hose featured in this catalog.

Warning

The Chemical Resistance Guides shown on the following pages are intended for general guidance only. The information contained therein is based upon tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No warranty is expressed or implied, as specific application parameters,

such as temperature, pressure and chemical concentrations vary widely. Furthermore, use of these hoses for handling multiple chemical products, either singly or as a mixture, may introduce uncontrollable factors relating to chemical resistance.

Before using any hose, the user is responsible for determining the suitability of the hose for the intended application. Therefore, the user assumes all risk and responsibility for determining the suitability of any hose for handling any chemical or chemicals.

SBR Chemical Resistance Guide

Key: G — Good L — Limited U — Unsatisfactory

Material Handled	68°F	Material Handled	68°F	Material Handled	68°F
1,1-dichloroethylene	U	Chromate (25%)	U	Methyl Ethyl Ketone (MEK)	U
1,2-dichloroethane	U	Citric Acid	G	Mineral Oil	U
Acetic Acid (10%)	L	Copper Chloride	G	Monochlorobenzene	U
Acetone	L	Copper Nitrate	G	Nitric Acid (5%)	U
Aluminum Acetate	L	Copper Sulfate	L	Nitric Acid (50%)	U
Aluminum Chloride	G	Creosote Oil	U	Nitric Acid (70%)	U
Aluminum Hydroxide	G	Dextrin	G	Nitric Acid (95%)	U
Aluminum Sulfide	L	Dichlorobenzene	U	Nitrous Acid (10%)	L
Ammonia (Gas)	G	Dichloromethane	U	Oleic Acid	U
Ammonia (Liquid)	G	Diethyl Ether	U	Oxalic Acid	L
Ammonium Acetate (Conc.)	G	Emulsifier	G	Ozone	U
Ammonium Bicarbonate	G	Ether	L	Paraffin	U
Ammonium Chloride	G	Ethyl Acetate	U	Perchloroethylene	U
Ammonium Hydroxide	U	Ethyl Alcohol (100%)	G	Phenol	U
Ammonium Nitrate	G	Ethyl Alcohol (6%)	G	Phosphoric Acid (30%)	U
Aniline	U	Ethylene Glycol	G	Potassium Bichromate	U
Aniline Sulfate	U	Fluorine	U	Potassium Bromide	G
Barium Chloride	G	Formaldehyde (40%)	L	Potassium Chloride	G
Barium Hydroxide	G	Glycerol	G	Potassium Cyanide	G
Beer	L	Grape Sugar	G	Potassium Fluoride	G
Benzene	U	Hydrochloric Acid (10%)	L	Potassium Hydroxide (10%)	L
Benzyl Alcohol	U	Hydrochloric Acid (20%)	L	Potassium Hydroxide (Conc.)	L
Bromine	U	Hydrochloric Acid (Conc.)	L	Potassium Permanganate	U
Butyl Alcohol	G	Hydrogen	L	Potassium Sulfate	G
Calcium Carbonate	G	Hydrogen Chloride (Anhydride)	L	Propylene Glycol	L
Calcium Chloride (Conc.)	G	Hydrogen Peroxide (3%)	U	Sake	G
Calcium Chloride (in 20% Mesh)	G	Hydrogen Peroxide (30%)	U	Salt Water	G
Calcium Hypochlorite (15% Cl ₂)	U	Hydrogen Peroxide (80% or more)	U	Sodium Bicarbonate	G
Calcium Hypochlorite (Conc.)	U	Hydrogen Sulfide	U	Sodium Chloride	G
Carbon Dioxide	U	Iodine	U	Sodium Hydroxide (10%)	G
Carbon Monoxide	L	Iron Chloride	G	Sodium Hydroxide (Conc.)	G
Carbon Tetrachloride	U	Iron Sulfate	G	Soy Sauce	G
Carbonic Acid	L	Isopropyl Alcohol	L	Stearic Acid	L
Carbonic Acid Gas	G	Magnesium Carbonate	G	Sulfuric Acid (10%)	U
Cetyl Alcohol	L	Magnesium Chloride	G	Tetrahydrofuran	U
Chlorine (10% Gas)	U	Magnesium Hydroxide	L	Toluene	U
Chlorine (100% Gas)	U	Magnesium Sulfate	L	Transformer Oil	U
Chlorine (Solution)	U	Methyl Alcohol (100%)	G	Water	G
Chloroform	U	Methyl Alcohol (6%)	G	Zinc chloride	G

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