SpillTech
Smart Spill Solutions™

COOLGUARD™ HR CHEMICAL RESISTANCE GUIDE

	Concentration	
A		
Acetic Acid	5%	A
Acetic Acid	50%	X
Acetic Acid Glacial		X
Acetic Anhydride		X
Acetone		C
Alkyl Alcohol		T
Alkyl Chloride		X
Aluminum Chloride		T
Aluminum Fluoride		T
Aluminum Sulfate		T
Ammonia Carbonate		T
Ammonium Chloride		T
Ammonium Fluoride	20%	T
Ammonium Hydroxide	30%	T
Ammonium Nitrate		T
Ammonium Phosphate		T
Ammonium Sulfate		T
Ammonium Sulfide		T
Amyl Acetate		X
Amyl Alcohol		T
Amyl Chloride		X
Aniline		X
Animal Oil		T
Antimony Chloride		A
Aqua Regia		X
ASTM Fuel A		A
ASTM Fuel B		A
ASTM Fuel C		B
ASTM Oil #1		T
ASTM Oil #2		A
ASTM Oil #3		T
Asphalt		T

A-Fluid has little to minor effect
B- Fluid has minor to moderate effect
C- Fluid has severe effect
T- No test data, likely to have minor effect

	Concentration	
B		
Barium Carbonate		T
Barium Hydroxide		T
Barium Sulfate		T
Benzene	<1%	B
Benzene	25%	B
Benzene	100%	7 DAYS
Benzoic Acid		T
Bismuth Carbonate		T
Borax Solutions		T
Boric Acid	10%	T
Bromic Acid		X
Bromine Anhydrous		X
Butyl Acetate		X
Butyl Alcohol		T
Butyl Phenol		X
Butyric Acid		X
C		
Calcium Bisulfate		T
Calcium Carbonate		T
Calcium Chloride		T
Calcium Hydroxide		T
Calcium Hypochlorate		T
Calcium Nitrate	50%	T
Calcium Sulfate		A
Calcium Disulfide		X
Carbon Tetrachloride		C
Carbonic Acid		T
Castor Oil		T
Chlorine Gas		X
Chloracetic Acid		X
Chlorobenzene		X
Chloroform		X
Chlorosulfonic Acid		X
Chrome Aluminum		T
Chromic Acid 30%		X
Chromium Trioxide		X
Citric Acid		T
Copper Chloride		T

	Concentration	
Copper Nitrate		T
Copper Sulfate		T
Corn Oil		T
Cottonseed Oil		T
Crude Oil		T
Cyclohexane		T
Cyclohexanol		T
Cyclohexanone		X
D		
Dextrine		T
Dibutyl Phthalate		X
Diesel Fuel		A
Diethyl Ether		X
Diethyl Sebacate		X
Dimethylamine		X
Diethyl Ketone		X
Disodium Phosphate		T
E		
Epichlorohydrine		C
Ethyl Acetate		C
Ethyl Alcohol		B
Ethyl Bromide		C
Ethyl Chloride		C
Ethylene Dichloride		X
Ethylene Glycol		T
Ethylene Oxide		A

	Concentration	
G		
Gallic Acid		X
Gasoline	<25% BTX	A
Gasoline	>25% BTX	A
Glucose		T
Glycerine		T
H		
Hexane		A
Hydraulic Fluid		X
Hydrazine		X
Hydrobromic Acid		X
Hydrochloric Acid	20%	X
Hydrochloric Acid	37%	X
Hydrocyanic Acid		T
Hydrofluoric Acid	20%	X
Hydrofluoric Acid	75%	X
Hydrofluosilic Acid	30%	C
Hydrogen Peroxide	3%	A
Hydrogen Peroxide	10%	T
Hydrogen Sulfide		T
Hydroquinone		B
I		
Iso-Octane		A
Isopropyl Alcohol		A
J		
JP-4 Jet Fuel		A
Jet A		T
Jet B		T
K		
Kerosene		A

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COOLGUARD HR CHEMICAL RESISTANCE GUIDELINE

	Concentration	
L		
Lactic Acid		X
Lead Acetate		T
Linseed Oil		T
Lubricating Oils		T
M		
Magnesium Carbonate		T
Magnesium Chloride		T
Magnesium Hydroxide		T
Magnesium Nitrate		T
Magnesium Sulfate		T
Malic Acid		T
Mercuric Chloride		T
Methyl Ethyl Keytone		C
Mineral Oil		T
Mineral Spirits		T
N		
Naptha		X
Napthalene		X
Nitric Acid	10%	X
Nitric Acid	50%	X
Nitric Acid	70%	X
Nitrobenzene		X
O		
Oleic Acid		T
Oleum 25%		C
Oxalic Acid		T

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	Concentration	
P		
Palmitic Acid		T
Perchlorethylene	<1%	T
Perchloroethylene	100%	C
Phenol		C
Phenol Formaldehyde		X
Phosphoric Acid	50%	C
Phosphoric Acid	75%	X
Phosphorous Yellow		X
Phosphorous Pentoxide		X
Photographic Solutions		T
Phthalate Plasticizer		C
Pickling Solutions		X
Potassium Bicarbonate		T
Potassium Carbonate		T
Potassium Chromate	40%	T
Potassium Cyanide		T
Potassium Dichromate		T
Potassium Hydroxide		T
Potassium Nitrate		T
Potassium Perchlorate	10%	T
Potassium Permanganate		T
Potassium Sulfate		A
Pyridine		X
S		
Salt Water		A
Silicon Grease		T
Silver Nitrate		T
Skydrol Hydraulic Fluid		C
Soap Solutions		A
Sodium Acetate		A
Sodium Bicarbonate		A
Sodium Bisulfate		T
Sodium Carbonate		T
Sodium Chlorate		T
Sodium Chloride		A
Sodium Dichromate	20%	T
Sodium Dichromate	100%	T
Sodium Ferrocyanide		T
Sodium Fluoride		T

COOLGUARD HR CHEMICAL RESISTANCE GUIDELINE

	Concentration	
Sodium Hydroxide	25%	T
Sodium Hydroxide	60%	A
Sodium Hypochlorite		T
Sodium Nitrate		T
Sodium Sulfate		T
Soybean Oil		A
Stannous Chloride		X
Stearic Acid		A
Styrene		X
Sulfuric Acid 10%		X
Sulfuric Acid 40%		X
Sulfuric Acid 98%		X
T		
Tannic Acid		X
Tartaric Acid		T
Tetrahydrofuran		X
Toluene	<1%	T
Toluene	25%	T
Toluene	100%	C
Transformer Oil		T
Triethanolamine		B
Trisodium Phosphate		T
Tung Oil		T
Turpentine		B
U		
Urea		T
V		
Vegetable Oil		A
W		
Water		A
X		
Xylene	<1%	T
Xylene	25%	T
Xylene	100%	X
Z		
Zinc Chloride		T
Zinc Oxide		T

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The data shown are the result of laboratory tests and are intended only as a guide. No performance warranty is intended or implied.

Ratings were determined by visual experimentation of coated fabric samples after contact with test fluid for 28 days at room temperature.

When considering Coolguard Membranes for a specific application, it is important to study other requirements such as permeability, service temperature, concentration, size to be contained, etc.

A sample of material should be tested in actual service before specification. When impractical, tests should be devised which simulate actual service conditions as closely as possible.

This table is presented and accepted at user's risk.