

Chemical Resistance Guide For TecsPak

The data tabulated below summarize the effects of a broad variety of fluids on TecsPak polyester elastomers. As a general rule the resistance of TecsPak elastomers to fluids and chemicals increases as the polymer hardness increases. Unless otherwise noted the ratings shown in the table apply to all hardness grades.

Rating Key:

- A Fluid has little or no effect
- B Fluid has minor to moderate effect
- C Fluid has severe effect
- T No data likely to have minor effect
- $X-no\;data-likely to have severe effect$

Ratings are at 72°F [22°C] unless otherwise specified. Concentrations of aqueous solutions are saturated. Except where noted.

We emphasize that the data contained herein should be used as a **guide only**. The tabulation is based primarily on laboratory test but **does not** take into account all variables that can be encountered in actual use. Therefore it is advisable to test the material under actual service conditions before specification. If this is not practical, tests should be devised that simulate service conditions as closely as possible.

CHEMICAL	RATING	CHEMICAL	RATING
Acetic Acid. 20%	А	Carbon Bisulfide	B (40, 55D)
Acetic Acid. 30%	А	Carbon Bisulfide	A (63, 72D)
Acetic Acid. Glacial	А	Carbon Dioxide	А
Acetic Acid. Clacial (100°F)[38°C]	В	Carbon Monozide	А
Acetic Anhydride	Т	Carbon Tetrachloride	C (40D)
Acetone	В	Carbon Tetrachloride	B (55, 63D)
Acetylene	А	Carbon Tetrachloride	A (72D)
Aluminum Chloride Solutions	Т	Castor Oil	B (40, 55D)
Aluminum Sulfate Solutions	Т	Castor Oil	A (63, 72D)
Ammonium Chloride Solutions	А	Chlorine Gas, Dry	X
Ammonium Hydroxide Solutions	Т	Chlorine Gas, Wet	Х
Ammonium Sulfate Solutions	B (40, 55D)	Chloroacetic Acid	Х
Ammonium Sulfate Solutions	A (72D)	Chlorobenzene	Х
Amyl Acetate	В	Chloroform	C (40, 55D)
Amyl Alcohol	А	Chloroform	B (63, 72D)
Aniline	С	Chlorosulfonic Acid	С
ASTM Oil No. 1 (300°F) [149°C]	A	Citric Acid Solutions	A
ASTM Oil No. 2 (300°F) [149°C]	A	Copper Chloride Solutions	A
ASTM Reference Fuel A (158°F) [70°C]	A	Copper Sulfate Solutions	A
ASTM Reference Fuel B (158°F) [70°C]	А	Cottonseed Oil	А
ASTM Reference Fuel C	А	Cyclohexane	А
	B (40, 55D)	Dibutyl Phthalate	А
ASTM Reference Fuel C (158°F) [70°C]	A (63, 72D)	Diethyl Sebacate	А
ASTM Reference Fuel C (158°F) [70°C]	Т	Dioctyl Phthalate	А
Asphalt Barium Hydroxide Solutions	Т	Epichlorohydrin	Х
	А	Ethyl Acetate	B (40, 55, 63D)
Beer	B (40, 55D)	Ethyl Acetate	A (72D)
Benzene	A (63, 72D)	Ethyl Alcohol	A
Benzene	A	Ethyl Chloride	C (40, 55D)
Borax Solutions Boric Acid Solutions	A	Ethyl Chloride	B (63, 72D)
	Х	Ethylene Dichloride	C (40, 55D)
Bromine, Anhydrous Liquid	A	Ethylene Dichloride	B (63, 72D)
Butane	B (40, 55D)	Ethylene Glycol	A (03, 72D)
Butyl Acetate	A (63, 72D)	Ethylene Oxide	A
Butyl Acetate Calcium Chloride Solutions	A (03, 72D)	Ferric Chloride Solutions	T
	Т	Fluosilicic Acid	Т
Calcium Hydroxide Solutions Calcium Hypochlorite. 5%	А		



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Formaldehyde. 40%	В	Palmitic Acid	А
Formic Acid	В	Perchloroethylene	C (40,55D)
Freon - 11(5)	А	Perchloroethylene	B (63, 72D)
Freon-12	A	Phenol	C (05, 72D)
	A	Pickling Solution (20% Nitric	X
Freon-113 (130°) [55°]	A	Acid, 4% HF)	Λ
Freon 114	A		
Gasoline	А	Pickling Solution (17% Nitric	Х
Glue	А	Acid, 4% HF)	
Clycerin	А	Potassium Dichromate Solutions	Т
n-Hexane	А	Potassium Hrdroxide Solutions	А
		PYDRAUL 312(9)	А
Hydrazine	С	Pyridine	Х
Hydrochloric Acid, 20%	B	1 j.i.diile	
	C	SAE 10 Oil	А
Hydrochloric Acid, 37%			
Hydrocyanic Acid	T	Sea Water	A
Hydrofluoric Acid, 48%	Х	Silicone Grease	A
		SKYDROL 5008(10)	А
Hydrofluoric Acid, 75%	Х	Soap Solutions	А
Hydrofluoric Acid, Anhydrous	Х		
Hydrogen	А	Sodium Chloride Solutions	А
Hydrogen Sulfide	A	Sodium Dichromate, 20%	Т
Isooctane	A	Sodium Hydroxide, 20%	Ă
	11	Sodium Hydroxide, 46 ½%	B
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Isopropyl Alcohol	A	Sodium Hypochlorite, 5%	А
IP-4 Jet Fuel	A		_
Kerosene	Т	Soybean Oil	Т
Lacquer Solvents	B (40,55D)	Stannous Chloride, 15%	Т
Lacquer Solvents	A (63, 72D)	Steam (212°F) [100°]	В
		Steam (230°) [110°]	С
Lactic Acid	Т	Stearic Acid	Т
Linseed Oil	Т	Stearre Heid	
Lubricating Oils	Ă	Stringerg	Х
	T	Styrene	T
Manesium Chloride Solutions		Sulfur, Molten	
Manesium Hydroxide Solutions	Т	Sulfur Dioxide, Liquid	T
	_	Sulfur Dioxide, Gas	Т
Mercuric Chloride Solutions	Т	Sulfuric Acid, up to 50%	А
Mercury	А		
Methyl Alcohol	А	Sulfuric Acid, above 50%	С
Methyl Ethyl Ketone	B (40, 55D)	SulfuricAcid, Fuming (20% Oleum)	С
Methyl Ethyl Ketone	A (63, 72D)	Sulfurous Acid	B
		Tannic Acid, 10%	A
Methylene Chloride	С		T
		Tartaric Acid	1
Mineral Oil	A		D (40, 555)
Naphtha	A	Tetrahydrofuran	B (40, 55D)
Naphthalene	B (40,55D)	Tetrahydrofuran	A (63, 72D)
Naphthalene	A (63, 72D)	Toluene	B (40, 55D)
		Toluene	A (63, 72D)
Nitric Acid, 10%	В	Trichloroethylene	C (40, 55D)
Nitric Acid, 30%	Ċ		· · · · /
Vitric Acid, 60%	C	Trichloroethylene	B (63, 72D)
	C		B (03, 72D) C
Nitric Acid, 70%		Triethanolamine	
Nitric Acid, Red Fuming	С	Trisodium Phosphate Solution	A
	-	Tung Oil	Т
Nitrobenzene	С	Water (158°F) [70°]	А
Oleic Acid	А		
Oleum, 20-25%	С	Water (212°F) [100°C]	В
Orduni, 20-2370		Xylene	B (40, 55D)
		5	A (63, 72D)
		Xylene	A (03, 72D)
		Zinc Chloride Solutions	1