



AN ERGONARMOR COMPANY

TECHNICAL INFORMATION

CHEMICAL RESISTANCE OF PENNTROWEL® & TUFCHEM® LININGS

CER-151 03/99 SUPERSEDES 02/99

CHEMICAL	PENNTROWEL												TUFCHEM	
	P T N 1 3 S U R F A C E R	P T 2 5 0 & 2 5 0 S B	P T U T 5 0 0	P T E P O X Y S B	P T V E S B	P T N O V O L A C S B	P T E P O X Y L / F S I L I C A	P T E P O X Y L / F C A R B O N	P T V E S I L I C A & V E L	P T V E L / F C A R B O N	P T N O V O L A C L / F S I L I C A	P T N O V O L A C L / F C A R B O N	T C S P R A Y E P O X Y	T C N O V O L A C S P R A Y E P O X Y
ACETIC ACID, 10%	C	C	R	C	R	C	C	C	R	R	C	C	C	C
ACETIC ACID, GLACIAL	N	N	-	N	R	N	N	N	R	R	N	N	N	N
ALCOHOL, BUTYL	R	R	-	R	R	R	R	R	R	R	R	R	R	R
ALCOHOL, ETHYL	R	R	-	R	R	R	R	R	R	R	R	R	R	R
ALCOHOL, ISOPROPYL	R	R	-	R	R	R	R	R	R	R	R	R	R	R
ALCOHOL, METHYL	R	C	-	C	R	R	C	C	R	R	R	R	C	R
ALUM	R	R	-	R	R	R	R	R	R	R	R	R	R	R
ALUMINUM BROMIDE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
ALUMINUM NITRATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
AMMONIA, WET, 10% SOLUTION	R	C	-	C	R	R	C	C	R	R	R	R	C	R
AMMONIUM CARBONATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
AMMONIUM HYDROXIDE, 20%	R	R	R	R	R	R	R	R	R	R	R	R	R	R
AMMONIUM HYDROXIDE, 30%	R	R	R	R	R	R	R	R	R	R	R	R	R	R
AMMONIUM IODIDE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
AMMONIUM SULFATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
BARIUM SULFATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
BARIUM SULFIDE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
CALCIUM CHLORIDE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
CALCIUM HYPOCHLORITE	R	C	-	C	R	R	N	C	R	R	R	R	C	R
CALCIUM SULFATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
CHLORINE DIOXIDE	N	N	-	N	R	N	N	N	R	R	N	N	N	N
CHLORINE GAS, DRY	C	C	-	C	R	C	C	C	R	R	C	C	C	C
CHLORINE GAS, WET	C	C	-	C	R	C	C	C	R	R	C	C	C	C
CHLORINE, WATER	C	C	-	C	R	C	C	C	R	R	C	C	C	C
CHLOROBENZENE	C	C	-	C	R	C	C	C	R	R	C	C	C	C
CHROMIC ACID, to 05%	C	C	-	C	R	C	N	C	R	R	C	C	C	C
CHROMIC ACID, to 10%	C	C	-	C	R	C	N	C	R	R	C	C	C	C
CHROMIC ACID, to 20%	N	N	-	N	N	N	N	N	R	R	N	N	N	N
CHROMIC ACID, to 50%	N	N	-	N	N	N	N	N	N	N	N	N	N	N
COPPER CHLORIDE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
COPPER FLOROBORATE	C	C	-	C	R	R	C	C	R	R	C	C	C	C
CRUDE OIL, SOUR	R	R	-	R	R	R	R	R	R	R	R	R	R	R
CRUDE OIL, SWEET	R	R	-	R	R	R	R	R	R	R	R	R	R	R
CYCLOHEXANE	R	C	-	C	R	R	C	C	R	R	C	C	C	R
DIESEL FUEL	R	R	-	R	R	R	R	R	R	R	R	R	R	R
ETHYL ACETATE	R	C	-	C	R	R	C	C	R	R	R	R	C	R

R = RESISTANT
 C = CONDITIONAL*
 N = NOT RESISTANT
 - = NOT TESTED
 * Contact Corrosion Engineering for specific recommendations

CHEMICAL	PT N13 Surfer	PT 250 & 250 SB	PT UT500	PT Epoxy SB	PT Vinyl Ester	PT Novalac SB	Epoxy L/F Silica	Epoxy L/F Carbon	PT Vinyl Ester Silica & VEL	PT Vinyl Ester L/F Carbon	PT Novalac L/F Silica	PT Novalac L/F Carbon	TC Spray Epoxy	TC Novalac Spray Epoxy
ETHYLENE GLYCOL	R	R	-	R	R	R	R	R	R	R	R	R	R	R
FERRIC CHLORIDE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
FORMALDEHYDE, to 37%	R	C	-	C	R	R	C	C	R	R	R	R	C	R
GASOLINE, REFINED (ALL)	R	C	-	C	R	R	C	C	R	R	R	R	C	R
HYDRAULIC FLUID	R	C	-	C	R	R	C	C	R	R	R	R	C	R
HYDROCHLORIC ACID, to 05%	R	R	R	R	R	R	R	R	R	R	R	R	R	R
HYDROCHLORIC ACID, to 10%	R	R	R	R	R	R	R	R	R	R	R	R	R	R
HYDROCHLORIC ACID, to 15%	R	C	R	C	R	R	C	C	R	R	R	R	C	R
HYDROCHLORIC ACID, to 32%	R	C	R	C	R	R	C	C	R	R	R	R	C	R
HYDROCHLORIC ACID, to 37%	R	C	R	C	R	R	C	C	R	R	R	R	C	R
HYDROFLUORIC ACID, to 20%	N	N	-	N	C	N	N	N	N	R	N	C	N	N
HYDROFLUORIC ACID, to 50%	N	N	-	N	C	N	N	N	N	R	N	C	N	N
HYDROFLUORIC ACID, to 70%	N	N	-	N	C	N	N	N	N	R	N	C	N	N
HYDROGEN PEROXIDE, to 05%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
HYDROGEN PEROXIDE, to 25%	C	C	-	C	R	C	N	C	R	R	C	C	C	C
JET FUEL	R	R	-	R	R	R	R	R	R	R	R	R	R	R
KEROSENE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
LACTIC ACID	R	R	R	R	R	R	R	R	R	R	R	R	R	R
LITHIUM ACETATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
MAGNESIUM ACETATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
METHYL ESTER	-	-	-	-	R	-	-	-	R	-	-	-	-	-
NITRIC ACID, to 5%	R	C	R	C	R	R	C	C	R	R	R	R	C	R
NITRIC ACID, to 10%	R	C	R	C	R	R	C	C	R	R	R	R	C	R
NITRIC ACID, to 20%	R	N	R	N	R	R	N	N	R	R	R	R	N	R
NITRIC ACID, to 50%	N	N	-	N	R	N	N	N	R	R	N	N	N	N
OLEUM (FUMING SULFURIC ACID)	N	N	-	N	N	N	N	N	N	N	N	N	N	N
PHOSPHORIC ACID, to 85%	R	C	R	C	R	R	C	C	R	R	R	R	C	R
POTASSIUM CARBONATE, to 25%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
POTASSIUM HYDROXIDE, SAT.	R	R	-	R	R	R	R	R	R	R	R	R	R	R
POTASSIUM HYDROXIDE, to 25%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
POTASSIUM HYDROXIDE, to 50%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
POTASSIUM SULFATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
PROPYLENE GLYCOL	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SILVER NITRATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM CARBONATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM CHLORIDE	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM HYDROXIDE, to 05%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM HYDROXIDE, to 10%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM HYDROXIDE, to 15%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM HYDROXIDE, to 25%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM HYDROXIDE, to 50%	R	R	-	R	R	R	R	R	R	R	R	R	R	R
SODIUM HYPOCHLORITE, to 5 1/4%	R	C	-	C	R	R	C	C	R	R	R	R	C	R
SODIUM HYPOCHLORITE, to 10%	C	C	-	C	R	C	C	C	R	R	C	C	C	C
SODIUM HYPOCHLORITE, to 15%	C	C	-	C	R	C	C	C	R	R	C	C	C	C
SULFUR DIOXIDE GAS, DRY	R	C	-	C	R	R	C	C	R	R	R	R	C	R
SULFUR DIOXIDE GAS, WET	R	C	-	C	R	R	C	C	R	R	R	R	C	R
SULFURIC ACID, to 25%	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SULFURIC ACID, to 50%	R	C	-	C	R	R	C	C	R	R	R	R	C	R
SULFURIC ACID, to 70%	R	C	-	C	R	R	C	C	R	R	R	R	C	R
SULFURIC ACID, to 98%	R	N	-	N	N	R	N	N	N	N	R	R	N	R
TOLUENE	R	C	-	C	R	R	C	C	R	R	R	R	C	R
TRICHLOROETHYLENE	R	C	-	C	N	R	C	C	N	N	R	R	C	R
WATER, DEIONIZED	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WATER, DISTILLED	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WATER, SALT	R	R	R	R	R	R	R	R	R	R	R	R	R	R
XYLENE	R	C	N	C	R	R	C	C	R	R	R	R	C	R
ZINC SULFATE	R	R	-	R	R	R	R	R	R	R	R	R	R	R

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