



QUALITY. RELIABILITY. INTEGRITY.

NRI EPOXIES: CHEMICAL COMPATIBILITY

Introduction

NRI's pre-impregnated and field-saturated composites are manufactured to restore, protect and reinforce pipes, pipeline components, and civil structures. Proper glass and/or carbon fiber product and binding resin selection are critical to provide the longest life, lowest lifecycle cost, best corrosion performance, and to minimize the risk failure in presence of chemical compounds in aggressive environments. NRI presents this compatibility chart to demonstrate that our systems are highly resistant to the most common aggressive corrosive chemicals.

Key

- SS = Syntho-Steel
- SPHC = Syntho-Poxy HC
- SPOL = Syntho-Poxy OL
- SPSS = Syntho-Poxy SS
- LV = Subsea LV
- SG = Syntho-Glass
- XT = Syntho-Glass XT
- VS = Viper-Skin
- THW = Thermo-Wrap
- THWCF = Thermo-Wrap CF
- E = Excellent
- G = Good
- A = Acceptable
- P = Poor
- NR = Not Recommended
- NE = Not Evaluated

Chemical	SS	SPHC	SPOL	SPSS	LV	SG	XT	VS	THW	THWCF
Acetic Acid 20%	G	NR	A	A	E	NE	E	E	A	NE
Acetone	E	NR	E	E	A	E	E	G	G	E
Ammonium Hydroxide 29%	E	A	NE	NE	G	E	E	A	E	E
Copper Sulfate	E	G	NE	NE	E	E	E	E	E	E
Diesel	E	E	E	E	E	E	E	G	E	E
Diethanolamine	E	G	NE	NE	E	E	E	G	E	E
Ethanol	E	NR	E	E	E	E	E	E	E	G
Ethylene Dichloride	A	NR	E	E	G	A	G	A	G	A
Gasoline	E	NR	E	E	E	E	G	G	E	G
Hydrochloric Acid, 40%	E	NR	E	E	E	E	E	E	G	E
Hydrofluoric Acid, 40%	NE	NE	NE	NE	NE	P	P	P	P	NE
Isohexane	G	E	NE	NE	E	E	E	E	E	E
Isopropyl Alcohol	G	E	E	E	E	E	G	E	E	G
Methanol	G	NR	E	E	G	E	E	E	E	E
Methyl Ethyl Ketone (2-butanone)	A	NR	E	E	G	G	G	A	G	E
NAPHTHA	E	E	E	E	E	E	E	E	E	E
Sodium Hydroxide (Caustic Soda)	E	E	E	E	E	G	E	E	G	E
Sulfuric Acid, 40%	E	A	E	E	E	G	E	G	E	E
Toluene	G	E	E	E	E	E	G	A	E	E
Water	E	A	E	E	E	E	E	E	E	E

Please contact us with any questions concerning a specific chemical that is not reflected on this table.

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