

July 2022 Chemical Resistance Guidelines For EPT XTRM Ply KEE/EIA, PVC & LLDPE

Element	Rating			Element	Rating			Element	Ratings		
	EIA	PVC	LLDPE		EIA	PVC	LLDPE		EIA	PVC	LLDPE
Acetic Acid (5%)	A	C	A	Diesel Fuel Low-Sulphur (ULC)	T	X	T	Nitric Acid (50%)	C	B	X
Acetic Acid (50%)	C	C	T	Diesel for Locomotive (ULC)	T	X	T	Nitric Acid (100%)	C	C	C
Acetone	C	C	A	Diethylene Glycol	A	X	A	Oxygenated Unleaded Gasoline containing Ethanol (ULC)	T	X	
Asphalt	T	B	T	Diethyl Phthalate (DOP)	C	C	B	Nitrobenzene	X	C	C
ASTM #1 Oil (ULC)	A	A		Ethyl Acetate	C	C	A	Palm Oil	A	B	T
ASTM #2 (ULC)	A			Ethyl Alcohol	A	C	A	Perchloroethylene	C	C	C
ASTM #3 Oil (ULC)	A	A		Ethylene Dichloride	X	C	C	Peroxide – 200 ppm	T	A	T
ASTM Reference Fuel A (ULC)	A	C		Ethylene Glycol (Anti-Freeze)	A	X	A	Phenol (50%)	C	C	C
ASTM Reference Fuel B (ULC)	A	C		Formaldehyde	X	A	B	Phosphoric Acid (50%)	A	C	A
ASTM Reference Fuel C	B	X		Fuel Ethanol (15%) (ULC)	T	X	A	Phosphoric Acid (100%)	C	C	B
Ammonium Phosphate	T	X	A	Fuel Methanol (15%) (ULC)	T	X	T	Potassium Chloride	T	B	A
Ammonium Sulfate	T	X	A	Furfural	X	X	C	Potassium Sulphate	T	X	A
Aqua Regia	X	X	X	Gasoline (ULC)	B	C	T	Pydraul 312C	X	X	
Automatic Trans. Fluid	T	T		Gas Turbine Fuel Oils (ULC)	T	X		Regular Sulphur Diesel Fuel (ULC)	A	X	
Aviation Gasoline (ULC)	B	X		Gear Oil	T	A		SAE-30 Oil	A	B	
Aviation Turbine Fuels (ULC)	T	X		Glycerin	T	A	A	Salt Water (25%)	B	C	A
Benzaldehyde	X	C	A	Heptane	B	B	C	Sea Water	T	B	A
Benzene	X	C	A	Home Heating Oil (ULC)	A	X		Soap Solution (1%)	T	B	B
Brine	B	T	A	Hydraulic Fluid - Petroleum	A	B	B	Sodium Acetate Solution	T	T	A
Bromine, Anhydrous Liquid	X	B	C	Hydraulic Fluid – Phosphate Ester	C	C		Sodium Bisulfite Solution	T	T	A
Butyl Acetate	X	C	C	Hydrocarbon Type II (40%Aromatic)	C	C	X	Sodium Hydro chlorite Sol. (12.5%)	A	A	A
Butyl Alcohol	T	C	A	Hydrochloric Acid (20%)	A	B	A	Sodium Hydroxide (40%)	A	A	A
Calcium Chloride (30%)	A	A	A	Isooctane	A	A	A	Sodium Phosphate	T	T	A
Calcium Hydroxide Solutions	T	B	A	Isopropyl Alcohol	T	T	A	Sulfuric Acid (50%)	A	A	B
Calcium Bisulfide	X	A	A	Jet Fuel, JP-4	A*	C	B	Sulfuric Acid (97%)	C	C	C
Carbon Tetrachloride	X	C	T	Kerosene (ULC)	A	B	B	Tannic Acid (50%)	T	A	A
Caustic Soda Liquid 50%	T	A	T	Lactic Acid	T	T	A	Tetrahydrofuran	X	C	C
Chlorobenzene	X	C	C	Linseed Oil - Raw	A	A	B	Transformer Oil	A	B	B
Chloroform	X	C	B	Magnesium Chloride	T	X	A	Tributyl Phosphate	X	X	T
Chlorosulfonic Acid	X	C	C	Magnesium Hydroxide	T	X	A	Toluene	C	C	A
Citric Acid 50%	B	T	A	Methyl Alcohol	A	A	A	UAN	A	X	
Clorox/Bleach/Sodium Hypochlorite	A	A/15 %	B	Methylene Chloride	A	C	C	Urea (50%)	A	X	A
Coagulant	T	A		Methyl Ethyl Ketone	T	C	A	Water (70° F)	A	A	A
Chromic Acid (50%)	A	B	B	Mineral Oil	A	B	T	Water (200° F)	A	A	A
Crude Oil	A	B	C	NACHURS 6-24-6	A	B	T	Xylene	C	C	B
Cyclohexane	B	C	B	Naphtha	T	C	B	Zinc Chloride	T	T	A
Diesel Fuel (ULC)	A	X	T	Nitric Acid (10%)	B	A	B	Zinc Sulphate	A	A	A

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 be acceptable
- X - No data – not likely to be acceptable

ULC – Meets the requirements of ULC S668

* - Recommended use of 36oz /42mil and above to meet rating

Fuel Types:

- ASTM D 471**
- Fuel A: Iso- Octane
 - Flue B- Iso- Octane Toluene 70%/ 30%
 - Fuel C: Iso -Octane Toluene 50%/50%

- ASTM D 5964-16 (2021)**
- ASTM Oil # 1 replaced with IRM 901
 - ASTM Oil #2 replaced with IRM 902
 - ASTM Oil # 3 replaced with IRM 903

For additional information contact our technical team at info@e2techtexiles.com