

## AlphaGuard PUMA – Chemical Resistance Guide

The tables below represent the qualitative resistance of Tremco's AlphaGuard PUMA to various substances. The tables are not all inclusive; if a particular substance is not shown below, or, more information is required, please contact Tremco Technical Service.

The "result" column on the right-side of the tables below is coded as follows:

- **"+"** = Resistant to repeated contact with AlphaGuard PUMA
- **"0"** = Limited resistance with long-term continuous contact. Softening or swelling cannot be excluded. Intermittent contact will generally not yield effects.
- **"-"** = Not resistant. Damage to the AlphaGuard PUMA system can occur even with intermittent contact.

### OTHER

Substance Type	Result
Effluent (feces)	+
Ammonium chloride solution – saturated	+
Ammonium sulphate solution – saturated	+
Beer	+
Bleach	+
Blood	+
Cutting oils	0
Calcium chloride solution – saturated	+
Chlorine water	+
"FEWA"	+
Stain remover	-
Fruit juice	+
Antifreeze	+
Vegetable juice	+
Hydraulic fluid	0
Coffee	+
Potassium chloride solution – saturated	+
Copper sulphate solution – saturated	+
Linseed oil	+
Tap water	+
Lake water	+
Milk	+
Mineral oil	+
Mineral water	+
Sodium carbonate – saturated	+

### OTHER

Substance Type	Result
Sodium chloride – saturated	+
Sodium hypochlorite 15%	+
Olive oil	+
"Persil"	+
"Pril"	+
"REI"	+
Ricinus oil	+
Crude oil	+
Ammonia	+
Lard	+
Soap solution	+
Silicone oil	+
Soda	+
Vinegar	+
Black tea	+
Dog urine	+
Animal fat	+
Deionized water	+
Water 158°F (70° C)	0
Hydrogen peroxide 30%	+
Hydrogen peroxide 80%	0
Wine	+
Brandy	+
Whisky	0

**ORGANIC SUBSTANCES**

Substance Type	Result
Acetone	-
Aromas	-
Benzene	-
Brake fluid	-
Butanol	0
Butyl acetate	-
Butylether	-
Chloroform	-
Cyclohexane	0
Dibutyl phthalate	0
Diesel	+
Diesel oil	+
Diethylether	-
Diocetyl phthalate	0
Ethanol	0
Formaldehyde 37%	+
Glycerine	0
Heptane	+
Hexane	+
Isopropyl alcohol	0

**ACIDS**

Substance Type	Result
Formic acid 10%	+
Formic acid 30%	0
Boric acid 3%	+
Chromic acid 20%	+
Chromic acid 40%	-
Acetic acid 25%	+
Acetic acid 30%	0
Acetic acid 80%	-
Fatty acid (tall oil)	+
Lactic acid 90%	+
Oxalic acid 10%	+
Phosphoric acid 40%	+
Phosphoric acid concentrated	0
Nitric acid 10%	+
Nitric acid 30%	0
Nitric acid concentrated	-
Hydrochloric acid 37% concentration	+
Sulphuric acid 50%	+
Sulphuric acid concentrated	-
Tartaric acid 50%	+

**ORGANIC SUBSTANCES**

Substance Type	Result
Kerosene	+
White Spirit	+
Methanol	-
Methylene chloride	-
Monochlorbenzene	0
n-propyl alcohol	0
n-propyl acetate	-
Perchlorethylene	-
Petrol	0
Petroleum	+
Phenol	0
Styrene	-
Terpentine	+
Mineral spirits	0
Naptha	+
Tetrachloro-hydrocarbons	-
Trichlorethylene	-
Toluol	-
Xylol	-

**ALKALI**

Substance Type	Result
Aluminum hydroxide	+
Amines	0
Ammonia 10%	+
Ammonia 25%	0
Potassium hydroxide 50%	+
Lime milk	+
Sodium hydroxide 30%	+
Caustic soda	+