



RANPRO PU BOOTS CHEMICAL RESISTANCE GUIDE

Inorganic acids	
Sulfuric acid (<10%)	+
Sulfuric acid (con.)	-
Hydrochloric acid (<10%)	+
Hydrochloric acid (con.)	-
Nitric acid (<5%)	+
Nitric acid (5-25%)	-
Nitric acid (25-50%)	-
Phosphoric acid (<50%)	-
Hydrofluoric acid (<30%)	-
Chromium trioxide (sol.)	-

Inorganic acids	
Acetic acid (<10%)	+
Butyric acid (<20%)	++
Butyric acid (con.)	++
Citric acid (sol.)	+
Lactic acid (<10%)	+
Formic acid (<10%)	-
Oxalic acid	-

Bases	
Ammonium hydroxide (<5%)	+
Ammonium hydroxide (con.)	-
Barium hydroxide (sol.)	-
Calcium hydroxide (sol.)	-
Magnesium hydroxide (sol.)	-
Sodium hydroxide (<50%)	-

Ethers	
Dibenzyl ether	+

Amines	
Triethanol amine	+

Ketones	
Acetone	+
Cyclohexanone	-
Methylethylketone	+

excellent	+++
good	++
fair	+
not recommended	-

Salt in solution	
Aluminium acetate	++
Aluminium chloride	+
Ammonium hydrogen carb.	
Ammonium chloride	+
Ammonium sulfide	++
Antimony trichloride	+
Barium chloride	++
Potassium carbonate	-
Potassium nitrate	+
Potassium permanganate	+
Lead acetate	+
Lead nitrate	+
Magnesium carbonate	+
Magnesium chloride	++
Mercurichloride	+
Sodium acetate	-
Sodium chlorate	+
Sodium chloride	+++
Sodium fluoride	+++
Sodium hypochlorite	-
Nickel sulfate	+
Stannic chloride	+
Silver nitrate	+
Zinc chloride	+
Zinc sulfide	++

Esters	
Amylacetate	+
Dibutylphthalate	++
Diocetylphthalate	++
Ethyl acetate	+
Ethyl formate	+
Methyl formate	+

Miscellaneous	
Detergents	++
Sugar solution	+++
Paint remover	-

Mineral oils and fats	
Engine oil	+++
Cutting oil	+++
Mineral oil	+++

Vegetable/animal oils & fats	
Margarine	+++
Mayonnaise	+++
Lactic	+++
Butter	+++
Pine oil	+++
Bean oil	+++
Coconut oil	+++
Fish oil	+++
Beef suet	+++
Higher alcohols	+++
Higher fatty acids	+++

Hydrocarbons	
Xylene	++
Gasoline	+++
Cyclohexane	++
Kerosene	+++
Naptha	++
Petroleum	++
Refined petrol	+++

Alcohols	
Butyl alcohol	+++
Hexyl alcohol	+++
Isopropyl alcohol	+++
Methyl alcohol	+++
Octyl alcohol	+++
Diethylene glycol	+++
Glycerine	+++

Chlorinated hydrocarbons	
Methylene chloride	+
Trichloro ethylene	+
Tetrachloro ethylene	+

Aldehydes	
Acetaldehyde	-
Benzaldehyde	-
Formaldehyde	-

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