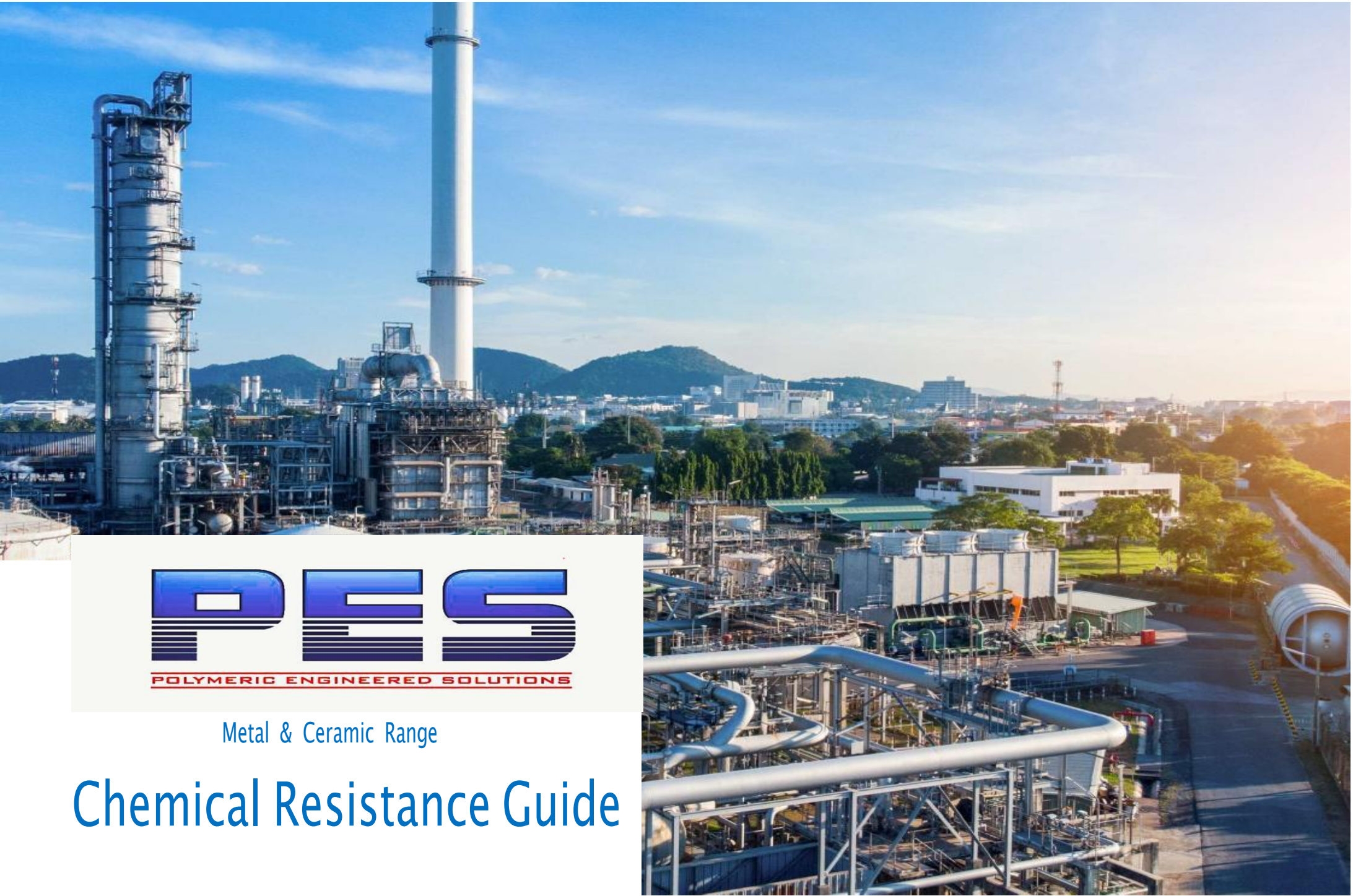


PES

POLYMERIC ENGINEERED SOLUTIONS

Metal & Ceramic Range

Chemical Resistance Guide

Chemical Resistance Guide

Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Acetic Acid <10%	2	2 PC	3	3	3	2	2	2	3	2 PC	2 PC	2 PC
Acetic Acid <20%	3	3 PC	3	3	3	3	3	3	3	3 PC	3 PC	3 PC
Acetic Acid >20%	4	4 PC	4	4	4	4	4	2	4	4 PC	4 PC	4 PC
Acetone	3	3 PC	3	3	3	3	3	3	3	1 PC	2 PC	1 PC
Alums	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Aluminum Chloride (Dry)	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Aluminum Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Ammonium Carbonate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Ammonium Hydroxide 0-10%	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Ammonium Hydroxide 10-20%	1	1 PC	3	3	2	1	1	1	1	1 PC	1 PC	1 PC
Ammonium Hydroxide +20%	3	3 PC	3	3	3	3	3	3	3	1 PC	1 PC	1 PC
Ammonium Phosphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Ammonium Nitrate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Amyl Acetate	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Amyl Alcohol	2	2 PC	2	2	2	2	2	2	2	1 PC	1 PC	1 PC
Apple Juice	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Aviation Fuel	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Barium Carbonate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC

1. Suitable for continuous immersion at 68°F(20°C) 2. Suitable for short term immersion (3 days maximum) at 68°F(20°C)

3. Suitable for short term contact (ie. quickly removed splashes or spills) 4. Not suitable for contact PC. Optimal post cure required

Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Barium Hydroxide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Barium Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Barium Sulphide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Beet	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Beet Sugar Liquor	2	2 PC	3	3	2	2	2	2	2	1 PC	2 PC	1 PC
Benzene	1	1 PC	4	4	2	1	2	1	2	1 PC	1 PC	1 PC
Benzoic Acid	2	2 PC	3	3	2	2	2	2	2	2 PC	2 PC	2 PC
Bleach	3	3 PC	3	3	3	3	3	3	3	2 PC	3 PC	2 PC
Brake Fluid	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Brine	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Bunker Oil	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Butyl Acetate	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Butyl Alcohol	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Calcium Carbonate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Calcium Chloride	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Calcium Hydroxide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Calcium Hypochlorite	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Calcium Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Carbon Dioxide (Dry)	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Carbon Monoxide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Carbon Tetrachloride	2	2 PC	3	3	2	2	2	2	2	2 PC	2 PC	2 PC

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Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Carbonic Acid 0-10%	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Carbonic Acid 30%	2	2 PC	2	2	2	2	2	2	2	2 PC	2 PC	2 PC
Castor Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Chlorine Dry	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Chlorine Wet	2	2 PC	3	3	2	2	2	2	2	2 PC	2 PC	2 PC
Chlorobenzene	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Chloroform	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Chromic Acid 10%	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Coconut Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Cod Liver Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Copper Chloride	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Copper Nitrate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Copper Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Creosote	3	3 PC	3	3	3	3	3	3	3	3 PC	3 PC	3 PC
Cresylic Acid	4	4 PC	4	4	4	4	4	4	4	3 PC	3 PC	3 PC
Crude Oil Sweet	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Crude Oil Sour	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Cyclohexane	1	1 PC	3	3	2	1	1	1	1	1 PC	1 PC	1 PC
Cyclohexanol	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Di-Acetone Alcohol	2	2 PC	2	2	2	2	2	2	2	1 PC	1 PC	1 PC
Di-Butyl Ether	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC

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Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Diethylamine	4	4 PC	4	4	4	4	4	4	4	2 PC	2 PC	2 PC
Diesel Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Diethanolamine	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Ethyl Acetate	1	1 PC	3	3	3	1	1	1	1	1 PC	1 PC	1 PC
Ethyl Acrylate	2	2 PC	2	2	2	2	2	2	2	1 PC	1 PC	1 PC
Ethyl Alcohol	2	2 PC	3	3	3	2	2	2	2	1 PC	1 PC	1 PC
Ethylene Glycol	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Ferric Chloride	2	2 PC	2	2	2	2	2	2	2	1 PC	1 PC	1 PC
Ferric Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Formic Acid 10%	3	3 PC	4	4	3	3	3	3	3	2 PC	2 PC	2 PC
Gasoline (petrol)	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Glycerol	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Heptane	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Hexane	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Hexanol	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Hydrobromic Acid 0-10%	1	1 PC	3	3	1	1	1	1	1	1 PC	1 PC	1 PC
Hydrobromic Acid 40%	3	3 PC	3	3	3	3	3	1	3	3 PC	2 PC	3 PC
Hydrochloric Acid 0-10%	1	1 PC	3	3	1	1	1	1	1	2 PC	1 PC	2 PC
Hydrochloric Acid 10-20%	1	1 PC	3	3	3	1	1	1	1	2 PC	1 PC	2 PC
Hydrochloric Acid 36%	3	3 PC	4	4	4	3	3	3	3	2 PC	2 PC	3 PC
Hydrofluoric Acid 10%	3	3 PC	3	3	3	3	3	3	3	3 PC	2 PC	3 PC

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Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Hydrofluoric Acid 20%	4	4 PC	4	4	4	4	4	4	4	4 PC	3 PC	3 PC
Hydraulic Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Iso Propyl Ether	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Iso Octane	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Kerosene	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Lactic Acid 10%	2	2 PC	4	4	3	2	2	2	2	3 PC	2 PC	3 PC
Lemon Juice	2	2 PC	3	3	2	2	2	2	2	2 PC	2 PC	2 PC
Lime Water	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
LPG	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Lubricating Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Magnesium Chloride	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Magnesium Hydroxide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Magnesium Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Maleic Acid	2	2 PC	3	3	2	2	2	2	2	2 PC	2 PC	2 PC
Mercury	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Methane	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Methyl Acetate	1	1 PC	3	3	3	1	1	1	1	1 PC	1 PC	1 PC
Methyl Alcohol	3	3 PC	3	3	3	3	3	3	3	1PC	2PC	2PC
Methylene Chloride	4	4 PC	4	4	4	4	4	4	4	1PC	2PC	2PC
Methyl Ethyl Ketone	2	2 PC	4	4	4	2	2	2	2	1 PC	1 PC	1 PC
Molasses	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC

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Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Naptha	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Natural Gas	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Nitric Acid 0-10%	1	1 PC	3	3	2	1	1	1	1	2 PC	1 PC	1 PC
Nitric Acid 10-20%	2	2 PC	3	3	3	2	2	2	2	2 PC	1 PC	1 PC
Nitric Acid +20%	4	4 PC	4	4	4	4	4	4	4	2 PC	1 PC	2 PC
Nitrous Acid 0-10%	1	1 PC	2	2	2	1	1	1	1	2 PC	1 PC	1 PC
Octane	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Oleum	4	4 PC	4	4	4	4	4	4	4	2 PC	1 PC	2 PC
Oleic Acid	2	2 PC	2	2	2	2	2	2	2	2 PC	2PC	2PC
Orange Juice	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Paraffin	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Paraffin Wax	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Palmitic Acid	2	2 PC	2	2	2	2	2	2	2	2 PC	2 PC	2 PC
Palm Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Petrol	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Petroleum Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Phenol (100%)	4	4 PC	4	4	4	4	4	3	4	3 PC	4 PC	3 PC
Phenol (10%)	3	3 PC	3	3	3	3	3	3	3	3 PC	3 PC	3 PC
Phosphoric Acid 0-10%	2	1 PC	2	2	2	2	2	2	2	2 PC	1 PC	1 PC
Phosphoric Acid 80%	3	3 PC	3	3	3	3	3	3	3	2 PC	1 PC	2 PC
Potassium Bromide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC

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Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Potassium Carbonate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Chlorate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Chloride	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Diphosphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Hydroxide 10%	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Hydroxide 20%	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Potassium Iodide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Nitrate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Potassium Sulphide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Propane	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
n-Propanol	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
iso-Propanol	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Propylene Glycol	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Propylene Glycol Methyl Ether	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Propylene Glycol Methyl Ether Acetate	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Sewage	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Bicarbonate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Bisulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Borate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC

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Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Sodium Bromide	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Carbonate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Chlorate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Chloride	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Chromate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Hydroxide 10%	1	1 PC	2	2	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Hydroxide 40%	1	1 PC	3	3	3	1	1	1	1	1 PC	1 PC	1 PC
Sodium Hypochlorite (bleach)	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Sodium Nitrate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Silicate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Sodium Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Starch	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Styrene	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Sulphuric Acid 0-10%	1	1 PC	3	3	1	1	1	1	1	2 PC	1 PC	1 PC
Sulphuric Acid 10-20%	2	1 PC	3	3	2	2	2	2	2	2 PC	1 PC	1 PC
Sulphuric Acid +20%	3	2 PC	4	4	3	3	3	3	3	2 PC	1 PC	2 PC
Sulphuric Acid 98%	4	3 PC	4	4	4	4	4	4	4	2 PC	1 PC	2 PC
Sulphur Dioxide gas dry	1	1 PC	1	1	1	1	1	1	1	2 PC	1 PC	1 PC
Tar	2	2 PC	2	2	2	2	2	2	3	2 PC	2 PC	2 PC
Tetrachlorethylene	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Toluene	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC

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Chemical Name	101	101 XHT	104	106	107	201	202	203	204 HD	205 HT	206 HTA	207 XHT
Transformer Oil	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Tri Butyl Phosphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Trichloroethylene	2	2 PC	3	3	3	2	2	2	2	2 PC	2 PC	2 PC
Urea	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Vinegar	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Water	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Waxes	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Whiskey	2	2 PC	3	3	3	2	2	2	2	1 PC	1 PC	1 PC
White Spirit	1	1 PC	1	1	2	1	1	1	1	1 PC	1 PC	1 PC
Xylene	1	1 PC	2	2	2	1	1	1	1	1 PC	1 PC	1 PC
Zinc Chloride	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Zinc Hydrosulphite	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC
Zinc Sulphate	1	1 PC	1	1	1	1	1	1	1	1 PC	1 PC	1 PC

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PLEASE NOTE: *The above information is provided for guidance only. Factors such as temperature, pressure and fluid dynamics can affect ultimate performance.*

Please refer to PES Technical Service Centre for advice regarding specific situations.