

MULTIPAC™ Compatibility Chart

This compatibility chart is intended as a guide for selecting the appropriate type of product for the chemicals listed. However, this data should not be construed as advice to use or not to use without further testing or investigation, since variations in service conditions can influence suitability.

- 1 Suitable
- 2 Suitable Depending on Conditions
- 3 Not Suitable
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	5100	6000	6101	6300	6400	6500	6700	6900
Acetamide	1	-	1	-	-	1	1	1
Acetic acid, 10%	1	-	1	1	1	1	1	3
Acetic acid, 100% (Glacial)	2	2	2	2	2	2	2	3
Acetone	2	2	2	2	2	2	1	2
Acetonitrile	3	3	3	2	3	3	2	3
Acetylene (gas)	1	1	1	1	2	1	1	1
Acid chlorides	3	-	3	-	-	3	-	3
Acrylic acid	3	3	2	3	3	2	2	3
Acrylonitrile	3	3	3	3	3	3	3	3
Adipic acid	1	-	1	-	-	1	1	3
Air (gas)	1	1	1	1	1	1	1	1
Alcohols	1	1	1	1	1	1	1	1
Aldehydes	2	-	2	-	-	2	-	2
Alum	1	1	1	1	1	1	1	2
Aluminium acetate	2	1	1	1	1	1	1	3
Aluminium chlorate	2	-	2	-	-	2	-	3
Aluminium chloride	3	-	2	-	-	2	1	3
Aluminium sulfate	3	1	2	1	1	2	1	3
Amines	3	2	3	2	1	3	-	3
Ammonia (gas)	3	2	2	2	3	2	2	2
Ammonium bicarbonate	1	-	1	-	-	1	-	1
Ammonium chloride	1	1	1	1	1	1	1	3
Ammonium hydroxide	2	1	1	1	1	1	1	1
Amyl acetate	2	-	2	-	-	2	2	2
Anhydrides	3	-	2	-	-	2	-	3
Aniline	3	3	3	3	3	3	2	3
Anisole	2	-	2	-	-	2	-	2
Argon (gas)	1	-	1	-	-	1	-	1
Asphalt	1	1	1	3	3	1	2	1
Barium chloride	1	1	1	1	1	1	1	3
Benzaldehyde	3	3	3	3	3	3	2	3
Benzene	1	3	1	3	3	1	3	1
Benzoic acid	2	3	2	3	3	2	2	2
Bio-diesel	1	1	1	1	1	1	-	1
Bio-ethanol	1	-	1	1	1	1	-	1
Black liquor	2	3	2	2	2	2	3	3
Borax	1	1	1	1	1	1	1	1
Boric acid	1	1	1	1	1	1	1	3
Butadiene (gas)	1	3	1	3	3	1	2	1
Butane (gas)	1	1	1	2	3	1	2	1
Butyl alcohol (Butanol)	1	1	1	1	1	1	1	1

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Butyric acid	2	1	1	3	3	1	1	3
Calcium chloride	1	1	1	1	1	1	1	3
Calcium hydroxide	1	1	1	1	1	1	1	1
Carbon dioxide (gas)	1	1	1	2	2	1	1	1
Carbon monoxide (gas)	1	1	1	3	3	1	1	1
Cellosolve	2	-	2	-	-	2	-	2
Chlorine (gas)	3	3	3	3	3	3	-	3
Chlorine (in water)	3	3	3	3	3	3	3	3
Chlorobenzene	2	3	2	3	3	2	3	2
Chloroform	3	2	3	3	3	3	2	3
Chloroprene	2	-	2	-	-	2	3	2
Chlorosilanes	3	-	3	-	-	3	-	3
Chromic acid	3	3	3	3	3	3	3	3
Citric acid	2	1	2	1	1	2	1	3
Copper acetate	1	-	1	-	-	1	1	3
Copper sulfate	1	1	1	1	1	1	1	3
Creosote	2	1	2	3	3	2	3	2
Cresols (Cresylic acid)	3	2	3	3	3	3	2	3
Cyclohexane	1	2	1	2	3	1	2	1
Cyclohexanol	1	-	1	-	-	1	1	1
Cyclohexanone	2	3	2	3	3	2	2	2
Decalin	1	-	1	-	-	1	-	1
Dextrin	1	-	1	-	-	1	-	1
Dibenzyl ether	2	3	2	3	3	2	3	2
Dibutyl phthalate	2	-	2	-	-	2	2	2
Dimethylacetamide (DMA)	2	3	2	3	3	2	-	2
Dimethylformamide (DMF)	2	3	2	3	3	2	3	2
Dioxane	3	3	3	3	3	3	2	3
Diphyl (Dowtherm A)	1	3	1	3	3	1	2	1
Esters	2	-	2	-	3	2	-	2
Ethane (gas)	1	1	1	2	2	1	3	1
Ethers	2	-	2	-	-	2	-	2
Ethyl acetate	2	2	2	3	2	2	2	2
Ethyl alcohol (Ethanol)	1	1	1	1	1	1	1	1
Ethyl cellulose	2	-	2	-	-	2	-	2
Ethyl chloride (gas)	3	3	3	3	3	3	3	3
Ethylene (gas)	1	1	1	2	2	1	3	1
Ethylene glycol	1	1	1	1	1	1	1	1
Formaldehyde (Formalin)	2	1	2	2	2	2	1	2
Formamide	2	-	2	-	-	2	2	2
Formic acid, 10%	2	3	1	1	3	1	1	3

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Formic acid, 85%	3	3	2	1	3	2	2	3
Formic acid, 100%	3	3	3	1	3	3	2	3
Freon-12 (R-12)	1	1	1	1	2	1	1	1
Freon-134a (R-134a)	1	1	1	1	2	1	1	1
Freon-22 (R-22)	2	2	2	1	2	2	1	2
Fruit juices	1	-	1	-	-	1	-	3
Fuel oil	1	1	1	2	3	1	3	1
Gasoline	1	1	1	3	3	1	3	1
Gelatin	1	-	1	-	-	1	1	1
Glycerine (Glycerol)	1	1	1	1	1	1	1	1
Glycols	1	1	1	1	1	1	1	1
Helium (gas)	1	-	1	-	-	1	-	1
Heptane	1	1	1	2	3	1	3	1
Hydraulic oil (Glycol based)	1	1	1	1	1	1	1	1
Hydraulic oil (Mineral type)	1	1	1	2	2	1	3	1
Hydraulic oil (Phosphate ester based)	2	2	2	3	3	2	2	2
Hydrazine	3	2	3	2	2	3	-	3
Hydrocarbons	1	-	1	-	-	1	-	1
Hydrochloric acid, 10%	3	3	2	3	3	2	2	3
Hydrochloric acid, 37%	3	3	3	3	3	3	3	3
Hydrofluoric acid, 10%	3	3	3	3	3	3	3	3
Hydrofluoric acid, 48%	3	3	3	3	3	3	3	3
Hydrogen (gas)	1	1	1	1	1	1	1	1
Iron sulfate	1	-	1	-	-	1	-	3
Isobutane (gas)	1	1	1	2	3	1	3	1
Isooctane	1	1	1	2	3	1	3	1
Isoprene	1	-	1	-	-	1	-	1
Isopropyl alcohol (Isopropanol)	1	1	1	1	1	1	1	1
Kerosene	1	1	1	2	3	1	3	1
Ketones	2	-	2	-	-	2	-	2
Lactic acid	2	1	2	1	1	2	2	3
Lead acetate	2	-	1	-	-	1	-	3
Lead arsenate	1	-	1	-	-	1	-	3
Magnesium sulfate	1	1	1	1	1	1	1	1
Maleic acid	2	1	2	3	2	2	2	3
Malic acid	2	-	2	-	-	2	-	3
Methane (gas)	1	1	1	2	3	1	3	1
Methyl alcohol (Methanol)	1	1	1	1	1	1	1	1
Methyl chloride (gas)	2	-	2	3	3	2	3	2
Methylene dichloride	2	-	2	-	-	2	-	2
Methyl ethyl ketone (MEK)	2	2	2	2	3	2	3	2

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N-Methyl-pyrrolidone (NMP)	2	-	2	-	-	2	-	2
Milk	1	1	1	1	1	1	1	1
Mineral oil (ASTM no.1)	1	1	1	1	1	1	3	1
Motor oil	1	-	1	-	-	1	-	1
Naphtha	1	1	1	3	2	1	3	1
Nitric acid, 10%	3	3	3	3	3	3	3	3
Nitric acid, 65%	3	3	3	3	3	3	3	3
Nitrobenzene	3	-	3	3	3	3	3	3
Nitrogen (gas)	1	1	1	1	1	1	1	1
Nitrous gases (NOx)	2	-	2	-	-	2	-	3
Octane	1	1	1	2	3	1	3	1
Oils (Essential)	1	1	1	2	3	1	-	1
Oils (Vegetable)	1	1	1	2	3	1	3	1
Oleic acid	1	2	1	2	3	1	3	3
Oleum (Sulfuric acid, fuming)	3	3	3	3	3	3	3	3
Oxalic acid	2	2	2	2	3	2	2	3
Oxygen (gas)	3	3	-	3	3	-	3	3
Palmitic acid	1	-	1	-	-	1	1	3
Paraffin oil	1	1	1	2	2	1	3	1
Pentane	1	1	1	2	3	1	3	1
Perchloroethylene	3	2	3	3	3	3	3	3
Petroleum (Crude oil)	1	1	1	2	3	1	3	1
Phenol (Carbolic acid)	3	3	3	3	3	3	2	3
Phosphoric acid, 40%	3	2	2	2	3	2	3	3
Phosphoric acid, 85%	3	-	3	-	-	3	3	3
Phthalic acid	1	3	1	2	3	1	1	3
Potassium acetate	1	-	1	-	-	1	1	3
Potassium bicarbonate	1	-	1	-	-	1	-	1
Potassium carbonate	1	-	1	-	-	1	1	1
Potassium chloride	1	1	1	1	1	1	1	3
Potassium cyanide	1	-	1	-	-	1	1	3
Potassium dichromate	3	1	2	2	2	2	1	3
Potassium hydroxide	3	2	2	2	2	2	3	2
Potassium iodide	1	-	1	-	-	1	-	3
Potassium nitrate	1	2	1	2	2	1	1	3
Potassium permanganate	3	-	2	-	-	2	1	3
Propane (gas)	1	1	1	2	3	1	3	1
Propylene (gas)	1	2	1	3	3	1	3	1
Pyridine	3	3	3	3	3	3	3	3
Salicylic acid	2	-	2	-	-	2	1	3
Seawater/brine	1	1	1	1	1	1	1	3

Limitation of liability: actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application. A.R. Thomson Group does not make or imply any warranty of suitability for a particular purpose and is not liable for any damages arising from the use of the information in this sheet.

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	5100	6000	6101	6300	6400	6500	6700	6900
Silicones (oil/grease)	1	-	1	-	-	1	3	1
Soaps	1	1	1	1	1	1	1	1
Sodium aluminate	2	-	1	-	-	1	1	1
Sodium bicarbonate	1	1	1	1	1	1	1	1
Sodium bisulfite	2	1	1	1	1	1	1	3
Sodium carbonate	1	1	1	1	1	1	1	1
Sodium chloride	1	1	1	1	1	1	1	3
Sodium cyanide	1	-	1	-	-	1	3	3
Sodium hydroxide	3	2	2	3	2	2	3	2
Sodium hypochlorite (Bleach)	3	3	2	2	2	2	3	3
Sodium silicate (Water glass)	1	-	1	1	1	1	1	2
Sodium sulfate	1	1	1	1	1	1	1	1
Sodium sulfide	3	-	1	-	-	1	1	3
Starch	1	-	1	-	-	1	1	1
Steam	2	1	1	1	1	1	2	2
Stearic acid	1	1	1	1	2	1	1	3
Styrene	2	3	2	3	3	2	3	2
Sugars	1	-	1	-	-	1	1	1
Sulfur	2	2	2	2	3	2	2	2
Sulfur dioxide (gas)	2	3	2	3	3	2	2	2
Sulfuric acid, 20%	3	3	3	3	3	3	3	3
Sulfuric acid, 98%	3	3	3	3	3	3	3	3
Sulfuryl chloride	3	-	3	-	-	3	-	3
Tar	1	1	1	2	2	1	3	1
Tartaric acid	2	-	2	-	-	2	1	3
Tetrahydrofuran (THF)	3	3	3	3	3	3	3	3
Titanium tetrachloride	3	-	3	-	-	3	3	3
Toluene	1	3	1	2	3	1	3	1
2,4-Toluenediisocyanate	2	-	2	-	-	2	-	2
Transformer oil (Mineral type)	1	1	1	2	3	1	3	1
Trichloroethylene	3	2	3	3	3	3	2	3
Vinegar	1	1	1	1	2	1	1	3
Vinyl chloride (gas)	3	3	3	3	3	3	3	3
Vinylidene chloride	3	-	3	-	-	3	3	3
Water	1	1	1	1	1	1	1	2
White spirits	1	1	1	2	2	1	3	1
Xylenes	1	3	1	3	3	1	3	1
Xylenol	3	-	3	-	-	3	-	3
Zinc sulfate	1	1	1	1	1	1	1	3

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