

CHEMICAL RESISTANCE GUIDE FOR AQUAMARK[®] 400 and AQUAMARK[®] +480

GALE Pacific Aquamark[®] is manufactured from virgin grade polypropylene which inherently has very good chemical resistance to the most common materials encountered in a water contact application.

Scope and Field of Application

This document establishes a provisional classification of the chemical resistance of Aquamark[®] with respect to a number of chemicals. It is intended to provide general guidelines on the possible utilisation of Aquamark[®] for the storage of chemicals. The recommendations are provided on the basis that storage temperatures will not exceed 50°C.

For contact with chemicals not specified of this document (or temperatures exceeding 50°C), contact GALE Pacific to determine their suitability of use.

Definitions, Symbols and Abbreviations

The criteria of classifications, definitions, symbols and abbreviations adopted in this document are as follows:

S = Satisfactory = The long-term performance of Aquamark[®] is not expected to be affected due to prolonged exposure to the defined chemical

L = Limited = There is a high probability that the long-term performance of Aquamark[®] will be reduced due to prolonged exposure to the defined chemical.

NS = Not Satisfactory = The chemical resistance of Aquamark[®] will not be suitable for the intended chemical and will not be recommended for use in this application.

Limitation of Use

Aquamark is NOT recommended for the containment of hazardous materials or waste (including poisonous, highly corrosive (pH<4), toxic, radioactive, flammable, etc).

Aquamark will also have poor long-term resistance to mineral and synthetic oils, gasoline, kerosene, diesel, aviation fuels, bleach solutions, strong oxidizing, fatty acids and high levels of free chlorine.

Contact GALE Pacific if considering using Aquamark in direct contact with De-ionized water, such as water processed through reverse osmosis.



Chemical Resistance of Aquamark

Chemical or Product	Concentration	Suitability
Ammonium Chloride Ammonium Sulphate Animal fat/grease Animal Sewerage/Wash-down Aviation Fuel	Saturated Solution Saturated Solution	NS S S NS
Beer Benzene Brine Bromine, Liquid	100% 100% Saturated Solution 100%	S NS S NS
Calcium Carbonate Calcium Hypochlorite Chlorine, Liquid (Free Ion) Chlorine, Liquid (Free Ion) Chlorine, Liquid (Free Ion) Citric Acid	Saturated Solution 20% Up to 5ppm 5-10ppm Over 10ppm 10%	S NS S L NS S
Detergents	2%	S
Ethylene Glycol	100%	NS
Formaldehyde Fructose Fruit Juices	40%	NS S S
Gasoline, Petrol Glucose Grease (Petroleum based)	100% 20% 100%	NS S NS
Hydrochloric Acid Hydrochloric Acid Hydrochloric Acid Hydrogen Peroxide	2% Up to 10% Over 10% 3%	S L NS NS
Inks	100%	S
Kerosene Ketones	100%	NS NS
Lactic Acid	20%	S
Magnesium Chloride Magnesium Hydroxide Methyl Alcohol Milk Molasses Motor Oil (Synthetic or Natural)	Saturated Solution Saturated Solution 5% 100% 100%	S S L S S NS

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Paraffin Oil Petrol Potassium Chloride Potassium Hydroxide	100% Saturated Solution Up to 10%	L NS S L
Seawater Sodium Bicarbonate Sodium Chloride Sodium Hydroxide Sodium Hypochlorite Sulphuric Acid	100% Saturated Solution Saturated Solution 1% Up to 10% Up to 10%	S S S NS L
Toluene Turpentine	100% 100%	NS NS
Urea Urine	Saturated Solution 100%	S S
Vinegar	100%	S
Water (distilled, soft, hard) Wines	100%	S S
Xylene	100%	NS
Zinc Chloride	Saturate Solution	L

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