

## CHEMICAL RESISTANCE GUIDE FOR AQUACON®

GALE Pacific Aquacon® is manufactured from virgin grade PolyEthylene (PE) 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 Aquacon® with respect to a number of chemicals. It is intended to provide general guidelines on the possible utilisation of Aquacon® 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 Aquacon 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 Aquacon will be reduced due to prolonged exposure to the defined chemical.

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

### Limitation of Use

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

Aquacon® will also have poor long term resistance to mineral and synthetic oils, gasoline, kerosene, diesel, aviation fuels, bleach solutions, strong oxidizing and fatty acids.

### Chemical Resistance of Aquacon

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

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