

AquaMaster™ Chemical Resistance Chart

Please note that this table does not take into account the interactions between chemicals and the liner when more than one chemical is present and that this table is meant to be used as a guideline only. Customers are strongly encouraged to perform their own tests with the media being contained and the liner material of choice.

CHEMICAL RESISTANCE - AquaMaster™ RLLDPE

CHEMICAL REAGENT	CONCENTRATION (%)	21 °C	60 °C
A			
Air	-	Resistant	Resistant
Alum	-	Resistant	Resistant
Aluminum Chloride	-	Not resistant	Not resistant
Aluminum Fluoride	-	Not resistant	Not resistant
Aluminum Sulfate	-	Resistant	Resistant
Ammonia	100	Not resistant	Not resistant
Ammonium Carbonate	-	Resistant	Resistant
Ammonium Chloride	-	Not resistant	Not resistant
Ammonium Fluoride	20	Not resistant	Not resistant
Ammonium Hydroxide	10	Not resistant	Not resistant
Ammonium Nitrate	-	Resistant	Resistant
Ammonium Persulfate	-	Not resistant	Not resistant
Ammonium Sulfate	-	Resistant	Resistant
Ammonium Sulfide	-	Resistant	Resistant
Ammonium Thiocyanate	-	Resistant	Resistant
Antimony Chloride	-	Resistant	Resistant
Arsenic Acid	-	Not resistant	Not resistant
Ascorbic Acid	10	Resistant	Resistant
B			
Barium Carbonate	-	Resistant	Resistant
Barium Chloride	-	Resistant	Resistant
Barium Sulfate	-	Resistant	Resistant
Barium Sulfide	-	Resistant	Resistant
Beer	-	Resistant	Resistant
Benzoic Acid	-	Not resistant	Not resistant
Bismuth Carbonate	-	Resistant	Resistant
Black Liquor	-	Resistant	Resistant
Bleach Lye	10	Not resistant	Not resistant
Borax	-	Resistant	Resistant
Boric Acid	-	Resistant	Resistant
Boron Trifluoride	-	Not resistant	Not resistant
Brines	-	Resistant	Resistant
Bromic Acid	10	Not resistant	Not resistant
Butyl Alcohol - butanol	-	Not resistant	Not resistant
C			
Calcium Bisulfide	-	Resistant	Resistant
Calcium Carbonate	-	Resistant	Resistant

Calcium Chlorate	-	Not resistant	Not resistant
Calcium Chloride	-	Resistant	Resistant
Calcium Hydroxide	-	Not resistant	Not resistant
Calcium Hypochlorite	-	Not resistant	Not resistant
Calcium Nitrate	50	Resistant	Resistant
Calcium Oxide	-	Not resistant	Not resistant
Calcium Sulfate	-	Resistant	Resistant
Carbon Dioxide	-	Resistant	Resistant
Carbon Monoxide	-	Resistant	Resistant
Carbonic Acid	-	Resistant	Resistant
Chlorine	2	Not resistant	Not resistant
Chrome Alum	-	Resistant	Resistant
Chromic Acid	20	Not resistant	Not resistant
Coca Cola Syrup	-	Resistant	Not resistant
Coffee	-	Resistant	Resistant
Compost	-	Resistant	Resistant
Copper Chloride	-	Not resistant	Not resistant
Copper Cyanide	-	Not resistant	Not resistant
Copper Fluoride	2	Not resistant	Not resistant
Copper Nitrate	-	Not resistant	Not resistant
Copper Sulfate	-	Not resistant	Not resistant
Cresol	-	Resistant	Resistant
Cresylic Acid	50	Not resistant	Not resistant
Cuprous Chloride	-	Not resistant	Not resistant
D			
Dextrin	-	Resistant	Resistant
Dextrose	-	Resistant	Resistant
Diazo Salts	-	Not resistant	Not resistant
Disodium Phosphate	-	Resistant	Resistant
F			
Ferric Chloride	-	Not resistant	Not resistant
Ferric Nitrate	-	Not resistant	Not resistant
Ferrous Chloride	-	Not resistant	Not resistant
Ferrous Sulfate	-	Not resistant	Not resistant
Fluoboric Acid	-	Not resistant	Not resistant
Fluosilicic Acid	32	Not resistant	Not resistant
Fructose	-	Resistant	Resistant
G			
Glucose	-	Resistant	Resistant
Grape Sugar	-	Resistant	Resistant
H			
Hexachlorobenzene	-	Resistant	Resistant
Hydrobromic Acid	50	Not resistant	Not resistant
Hydrochloric Acid	10	Not resistant	Not resistant
Hydrocyanic Acid	-	Resistant	Resistant
Hydrofluoric Acid	40	Not resistant	Not resistant
Hydrogen	100	Resistant	Resistant
Hydrogen Bromide	10	Not resistant	Not resistant
Hydrogen Chloride	-	Not resistant	Not resistant
Hydrogen Peroxide	30	Not resistant	Not resistant
Hydrogen Phosphide	-	Resistant	Resistant

Hydrogen Sulfide	-	Not resistant	Not resistant
Hydroquinone	-	Resistant	Resistant
Hypochlorous Acid	-	Not resistant	Not resistant
L			
Lead Acetate	-	Resistant	Resistant
Lead Nitrate	-	Resistant	Resistant
M			
Magnesium Carbonate	-	Resistant	Resistant
Magnesium Chloride	-	Resistant	Resistant
Magnesium Hydroxide	-	Resistant	Resistant
Magnesium Nitrate	-	Resistant	Resistant
Magnesium Sulfate	-	Resistant	Resistant
Maleic Acid	-	Resistant	Resistant
Mercuric Chloride	-	Resistant	Resistant
Mercuric Cyanide	-	Resistant	Resistant
Mercurous Nitrate	-	Resistant	Resistant
Mercury	-	Resistant	Resistant
Molasses	-	Resistant	Resistant
N			
Naphtha	-	Not resistant	Not resistant
Nickel Chloride	-	Resistant	Resistant
Nickel Sulfate	-	Resistant	Resistant
Nitric Acid	0 - 30	Not resistant	Not resistant
O			
Octane	-	Resistant	Resistant
Orange Extract	-	Resistant	Resistant
P			
Perchloric Acid	10	Not resistant	Not resistant
Phosphoric Acid	30	Not resistant	Not resistant
Phosphorus	-	Not resistant	Not resistant
Phosphorous Pentoxide	-	Not resistant	Not resistant
Phosphorous Tricholide	-	Not resistant	Not resistant
Photographic Developers	-	Resistant	Resistant
Plating Solution - indium	-	Not resistant	Not resistant
Potassoum Bicarbonate	-	Resistant	Resistant
Potassium Borate	1	Resistant	Resistant
Potassium Bromate	10	Not resistant	Not resistant
Potassium Bromide	-	Resistant	Resistant
Potassium Carbonate	-	Resistant	Resistant
Potassium Chlorate	-	Not resistant	Not resistant
Potassium Chloride	-	Resistant	Resistant
Potassium Chromate	40	Not resistant	Not resistant
Potassium Cyanide	-	Not resistant	Not resistant
Potassium Dichromate	40	Not resistant	Not resistant
Potassium Ferricyanide	-	Resistant	Resistant
Potassium Ferrosyanide	-	Resistant	Resistant
Potassium Fluoride	-	Not resistant	Not resistant
Potassium Hydroxide	20	Not resistant	Not resistant
Potassium Nitrate	-	Resistant	Resistant
Potassium Perborate	-	Resistant	Resistant
Potassium Perchorate	10	Not resistant	Not resistant

Potassium Permanganate	20	Not resistant	Not resistant
Potassium Persulfate	-	Not resistant	Not resistant
Potassium Sulfate	-	Resistant	Resistant
Potassium Sulfide	-	Resistant	Resistant
Potassium Sulfite	-	Resistant	Resistant
R			
Resorcinol	-	Not resistant	Not resistant
S			
Salicylic Acid	-	Resistant	Resistant
Sea Water	-	Resistant	Resistant
Selenic Acid	-	Resistant	Resistant
Silicic Acid	-	Resistant	Resistant
Silver Nitrate	-	Resistant	Resistant
Sodium Acetate	-	Resistant	Resistant
Sodium Benzoate	35	Resistant	Resistant
Sodium Bicarbonate	-	Resistant	Resistant
Sodium Bisulfate	-	Resistant	Resistant
Sodium Bisulfite	-	Resistant	Resistant
Sodium Borate	-	Resistant	Resistant
Sodium Bromide	-	Resistant	Resistant
Sodium Carbonate	-	Resistant	Resistant
Sodium Chlorate	-	Not resistant	Not resistant
Sodium Chloride	-	Resistant	Resistant
Sodium Cyanide	-	Resistant	Resistant
Sodium Dichromate	-	Not resistant	Not resistant
Sodium Ferricyanide	-	Resistant	Resistant
Sodium Ferrocyanide	-	Resistant	Resistant
Sodium Hydroxide	-	Not resistant	Not resistant
Sodium Hypochlorite	-	Not resistant	Not resistant
Sodium Nitrate	-	Resistant	Resistant
Sodium Sulfate	-	Resistant	Resistant
Sodium Sulfide	25	Resistant	Resistant
Sodium Sulfite	-	Resistant	Resistant
Stannic Chloride	-	Not resistant	Not resistant
Sulfur (colloidal)	-	Not resistant	Not resistant
Sulfur Dioxide	-	Not resistant	Not resistant
Sulfur Trioxide	-	Not resistant	Not resistant
Sulfuric Acid	30	Not resistant	Not resistant
Sulfurous Acid	-	Not resistant	Not resistant
T			
Tallow	-	Resistant	Not resistant
Tartaric Acid	10	Resistant	Resistant
Tetraethyllead	-	Not resistant	Not resistant
Triethanolamine	-	Resistant	Not resistant
Trisodium Phosphate	-	Resistant	Resistant
U			
Urea	0 - 30	Resistant	Resistant
Urine	-	Resistant	Resistant
V			
Vinegar	-	Resistant	Resistant
W			

Water	-	Resistant	Resistant
Y			
Yeast	-	Resistant	Resistant
Z			
Zinc Bromide	-	Resistant	Resistant
Zince Carbonate	-	Resistant	Resistant
Zinc Chloride	-	Resistant	Resistant
Zinc Oxide	-	Resistant	Resistant
Zinc Stearate	-	Resistant	Resistant
Zinc Sulfate	-	Resistant	Resistant