

PRODUCT SPECIFICATION SHEET

Hydrochloric Acid

Semi Grade

Test	Specification	Typical Results
Assay (HCL)	36.5-38%	37.51%
Color (APHA)	10	5
Extractable Organic Substances	5 ppm	< 5 ppm
Free Halogen (as Cl ₂)	5 ppm	< 5 ppm
Residue after Ignition	5 ppm	< 2 ppm
Sulfate (SO ₄)	0.5 ppm	< 0.25 ppm
Sulfite (SO ₃)	0.8 ppm	< .5 ppm
Phosphate (PO ₄)	0.05 ppm	< 0.05 ppm
Heavy Metals (as Pb)	0.1 ppm	< 0.1 ppm
Arsenic & Antimony (as As)	0.005 ppm	< 0.0005
Aluminum (Al)	1 ppm	< 1 ppm
Barium (Ba)	1 ppm	< 1 ppm
Boron (B)	0.1 ppm	< .01 ppm
Cadmium (Cd)	1 ppm	< 1 ppm
Calcium (Ca)	1 ppm	< 1 ppm
Chromium (Cr)	0.5 ppm	< 0.5 ppm
Cobalt (Co)	0.1 ppm	< .1 ppm
Copper (Cu)	0.1 ppm	< .1 ppm
Gallium (Ga)	0.5 ppm	< .5 ppm
Germanium (Ge)	1 ppm	< 1 ppm

Gold (Au)	0.5 ppm	< .5 ppm
Iron (Fe)	0.2 ppm	< .1 ppm
Lithium (Li)	1 ppm	< 1 ppm
Magnesium (Mg)	1 ppm	< 1 ppm
Manganese (Mn)	1 ppm	< 1 ppm
Nickel (Ni)	0.1 ppm	< .1 ppm
Potassium (K)	1 ppm	< 1 ppm
Silicon (Si)	1 ppm	< 1 ppm
Silver (Ag)	0.1 ppm	< .1 ppm
Sodium (Na)	1 ppm	< 1 ppm
Strontium (Sr)	1 ppm	< 1 ppm
Tin (Sn)	1 ppm	< 1 ppm
Zinc (Zn)	1 ppm	< 1 ppm

Appropriate/legal use of this product is the responsibility of the user.