

Hydrofluoric Acid 49% LM

Assay Parameter	Unit	Specification LM
Assay (HF)	%	48.8-49.2
Color (APHA)		Max 7
Fluosilicic Acid (H ₂ SiF ₆)	ppb	Max 10000
Chloride (Cl)	ppb	Max 1000
Nitrate (NO ₃)	ppb	Max 1000
Phosphate (PO ₄)	ppb	Max 400
Sulfate (SO ₄)	ppb	Max 500
Sulfite (SO ₃)	ppb	Max 1000
Aluminum (Al)	ppb	Max 10
Antimony (An)	ppb	Max 3
Arsenic (As)	ppb	Max 3
Barium (Ba)	ppb	Max 1
Boron (B)	ppb	Max 3
Cadmium (Cd)	ppb	Max 1
Calcium (Ca)	ppb	Max 10
Chromium (Cr)	ppb	Max 3
Cobalt (Co)	ppb	Max 1
Copper (Cu)	ppb	Max 1
Gallium (Ga)	ppb	Max 2
Germanium (Ge)	ppb	Max 5
Gold (Au)	ppb	Max 5
Iron (Fe)	ppb	Max 10
Lead (Pb)	ppb	Max 5
Lithium (Li)	ppb	Max 1
Magnesium (Mg)	ppb	Max 5
Manganese (Mn)	ppb	Max 1
Nickel (Ni)	ppb	Max 2
Niobium (Nb)	ppb	Max 10
Potassium (K)	ppb	Max 10
Silver (Ag)	ppb	Max 1
Sodium (Na)	ppb	Max 10
Strontium (Sr)	ppb	Max 1
Tin (Sn)	ppb	Max 5
Titanium (Ti)	ppb	Max 3
Vanadium (V)	ppb	Max 10

Zinc (Zn)	ppb	Max 5
Particle Count, 0.5 μ m	ct/ml	Max 150
Particle Count, 1.0 μ m	ct/ml	Max 10

*LM – Low metal

It is hereby certified that the above-mentioned product meets applicable testing, packaging, regulatory, and customer purchase order requirements. This includes, but is not limited to, chemical specifications and inspection of containers for packaging defects. The pertinent test and/or inspection records are on file.