



SOLVAY FLUORIDES

D0102~1045

SEMICONDUCTOR HYDROFLUORIC ACID; 49% 10 ppb Grade

CHEMICAL ANALYSIS

Assay (HF), Wt. %
Color (APHA)
Fluosilicic Acid (H₂SiF₆)

SPECIFICATION

48.85 – 49.20
6 max
0.005% (50 ppm)

TYPICAL ANALYSIS

49.07
<6
<10 ppb

MAXIMUM LIMIT OF IMPURITIES, PPB

Residue after Ignition	800 ppb	<500 ppb
Chloride (Cl)	1000 ppb	<100 ppb
Phosphate (PO ₄)	400 ppb	<100 ppb
Sulfate (SO ₄) and Sulfite (SO ₃)	500 ppb	<100 ppb
Nitrate (NO ₃)	1000 ppb	<100 ppb
Arsenic & Antimony (as As)	10 ppb	<1 ppb
Aluminum (Al)	10 ppb	<1 ppb
Barium (Ba)	5 ppb	<1 ppb
Beryllium (Be)	5 ppb	<1 ppb
Bismuth (Bi)	5 ppb	<1 ppb
Boron (Ba)	10 ppb	<1 ppb
Cadmium (Cd)	10 ppb	<1 ppb
Calcium (Ca)	10 ppb	<1 ppb
Chromium (Cr)	10 ppb	<1 ppb
Cobalt (Co)	10 ppb	<1 ppb
Copper (Cu)	10 ppb	<1 ppb
Gallium (Ga)	10 ppb	<1 ppb
Germanium (Ge)	10 ppb	<1 ppb
Gold (Au)	5 ppb	<1 ppb
Iron (Fe)	10 ppb	<3 ppb
Lead (Pb)	10 ppb	<1 ppb
Lithium (Li)	5 ppb	<1 ppb
Magnesium (Mg)	10 ppb	<1 ppb
Manganese (Mn)	10 ppb	<2 ppb
Molybdenum (Mo)	10 ppb	<1 ppb
Nickel (Ni)	10 ppb	<1 ppb
Niobium (Nb)	10 ppb	<1 ppb
Potassium (K)	10 ppb	<1 ppb
Silver (Ag)	5 ppb	<1 ppb
Sodium (Na)	10 ppb	<1 ppb
Strontium (Sr)	10 ppb	<1 ppb
Tantalum (Ta)	10 ppb	<1 ppb
Thallium (Tl)	10 ppb	<1 ppb
Tin (Sn)	10 ppb	<1 ppb
Titanium (Ti)	10 ppb	<1 ppb
Vanadium (V)	10 ppb	<1 ppb
Zinc (Zn)	10 ppb	<1 ppb
Zirconium (Zr)	10 ppb	<1 ppb

PARTICLE COUNT

>0.2mm, max (drums)	350
>0.5mm, max (drums)	150

SOLVAY FLUORIDES, INC. 1630 Des Peres Road, Suite 305, St. Louis, Missouri 63131
Phone: 314/965-7100 Fax: 314/966-2907

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