



SOLVAY FLUORIDES

DRAFT~1043

SEMICONDUCTOR HYDROFLUORIC ACID, 49% 1 ppb Grade

CHEMICAL ANALYSIS

HF, Assay%
Color (APHA)
H₂SiF₆, %

SPECIFICATION

49.0 – 49.2
5 max
0.0050

TYPICAL ANALYSIS

49.1
<5
<10 ppm

MAXIMUM LIMIT OF IMPURITIES, PPB

Chloride (Cl)	10 ppb	<10
Phosphate (PO ₄)	10 ppb	<10
Sulfate (SO ₄) and Sulfite (SO ₃)	10 ppb	<10
Nitrate (NO ₃)	10 ppb	<10
Arsenic & Antimony (as As)	1 ppb	<0.5
Aluminum (Al)	1 ppb	<0.5
Barium (Ba)	1 ppb	<0.1
Beryllium(Be)	1 ppb	<0.1
Bismuth(Bi)	1 ppb	<0.1
Boron (B)	1 ppb	<0.3
Cadmium (Cd)	1 ppb	<0.1
Calcium (Ca)	1 ppb	<0.2
Chromium (Cr)	1 ppb	<0.1
Cobalt (Co)	1 ppb	<0.1
Copper (Cu)	1 ppb	<0.1
Gallium (Ga)	1 ppb	<0.1
Germanium (Ge)	1 ppb	<0.1
Gold (Au)	1 ppb	<0.2
Iron (Fe)	1 ppb	<0.3
Lead (Pb)	1 ppb	<0.1
Lithium (Li)	1 ppb	<0.1
Magnesium (Mg)	1 ppb	<0.2
Manganese (Mn)	1 ppb	<0.1
Molybdenum(Mo)	1 ppb	<0.1
Nickel (Ni)	1 ppb	<0.1
Niobium(Nb)	1 ppb	<0.1
Potassium (K)	1 ppb	<0.2
Silver (Ag)	1 ppb	<0.1
Sodium (Na)	1 ppb	<0.2
Strontium (Sr)	1 ppb	<0.1
Tantalum(Ta)	1 ppb	<0.1
Thallium(Tl)	1 ppb	<0.1
Tin (Sn)	1 ppb	<0.1
Titanium (Ti)	1 ppb	<0.2
Vanadium(V)	1 ppb	<0.1
Zinc (Zn)	1 ppb	<0.1
Zirconium(Zr)	1 ppb	<0.1

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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