

SEMICONDUCTOR HYDROFLUORIC ACID, 49% 1 ppb Grade (SLSI)

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CHEMICAL ANALYSIS	SPECIFICATION	TYPICAL ANALYSIS
HF, Assay%	48.85 - 49.2	49.1
Color (APHA)	5 max	<5 max
H ₂ SiF ₆ , %	50 ppm	<10 ppm
MAXIMUM LIMIT OF IMPURITIES, PPB		
Chloride (Cl)	200 ppb	10 ppb
Phosphate (PO ₄)	100 ppb	10 ppb
Sulfate (SO ₄) and Sulfite (SO ₃)	200 ppb	10 ppb
Nitrate (NO ₃)	100 ppb	<50 ppb
Arsenic & Antimony (as As)	1 ppb	<.4 ppb
Aluminum (Al)	1 ppb	<.3 ppb
Barium (Ba)	1 ppb	<.1 ppb
Beryllium	1 ppb	<.1 ppb
Bismuth	1 ppb	<.1 ppb
Boron (Ba)	1 ppb	<.1 ppb
Cadmium (Cd)	1 ppb	<.1 ppb
Calcium (Ca)	1 ppb	<.2 ppb
Chromium (Cr)	1 ppb	<.1 ppb
Cobalt (Co)	1 ppb	<.1 ppb
Copper (Cu)	1 ppb	<.1 ppb
Gallium (Ga)	1 ppb	<.1 ppb
Germanium (Ge)	1 ppb	<.1 ppb
Gold (Au)	1 ppb	<.2 ppb
Iron (Fe)	1 ppb	<.3 ppb
Lead (Pb)	1 ppb	<.1 ppb
Lithium (Li)	1 ppb	<.1 ppb
Magnesium (Mg)	1 ppb	<.2 ppb
Manganese (Mn)	1 ppb	<.1 ppb
Molybdenum	1 ppb	<.1 ppb
Nickel (Ni)	1 ppb	<.1 ppb
Niobium	1 ppb	<.1 ppb
Potassium (K)	1 ppb	<.2 ppb
Silver (Ag)	1 ppb	<.1 ppb
Sodium (Na)	1 ppb	<.2 ppb
Strontium (Sr)	1 ppb	<.1 ppb
Tantalum	1 ppb	<.1 ppb
Thallium	1 ppb	<.1 ppb
Tin (Sn)	1 ppb	<.1 ppb
Titanium (Ti)	1 ppb	<.2 ppb
Vanadium	1 ppb	<.1 ppb
Zinc (Zn)	1 ppb	<.1 ppb
Zirconium	1 ppb	<.1 ppb
PARTICLE COUNT		
>0.5μ, #/ml max (drums)	50	<25

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65771 Revised 04-07-04
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