

# SEMICONDUCTOR HYDROFLUORIC ACID, 49% 10 ppb Grade (ULSI)

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CHEMICAL ANALYSIS	SPECIFICATION	TYPICAL ANALYSIS
Assay (HF), Wt. %	48.85 - 49.20	49.07
Color (APHA)	6 max	<6
Fluosilicic Acid (H <sub>2</sub> SiF <sub>6</sub> )	50 ppm	<10 ppm
<b>MAXIMUM LIMIT OF IMPURITIES, PPB</b>		
Chloride (Cl)	1000 ppb	<100 ppb
Phosphate (PO <sub>4</sub> )	400 ppb	<100 ppb
Sulfate (SO <sub>4</sub> ) and Sulfite (SO <sub>3</sub> )	500 ppb	<100 ppb
Nitrate (NO <sub>3</sub> )	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	<2 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	<2 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
<b>PARTICLE COUNT</b>		
>0.5μ, #/ml max (drums)	150	<50

The data and recommendations presented are based upon information available to us which we believe to be reliable. However, the information hereon is provided solely for the convenience of our customer, and we assume no liability for any inaccuracies. All product data and specifications are subject to actual testing and to the terms of our purchase order and invoice. No warranties are expressed or implied regarding the results to be obtained from the product or that any use thereof will not infringe on any patent.



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