

# Brightchem Hydrofluoric Acid (HF)

**VARIOUS GRADES AND  
PACKAGING AVAILABLE**

## BENEFITS

- Efficient logistics and supply
- Guarantees for a range of specifications for trace metals by in-house ICP-MS
- Multiple container sizes (25 L , 200 L , 1000 L )
- Container equipped with dip tube from AS Dusemund /CPC or other brand recommend by customer for closed system dispensing
- Own transport . Efficient logistics and supply

## OVERVIEW

In the semiconductor field, it is mainly used for wafer surface cleaning, cleaning and etching during chip processing, and other processes; In the field of new displays, it is mainly used for glass substrate cleaning, silicon nitride, silicon dioxide etching, etc; In the field of photovoltaic solar cells, it is mainly used for surface cleaning, etching edge removal, cleaning and velvet making of silicon wafers.

Specification	Units	Typical spec Guidelines		
		EL	VLSI	ULSI
Assay (wt %)	wt %	50 ± 1 , 60 ± 1		
Color	APHA	< 10	< 10	< 10
Bromide	ppm	< 1	< 0.5	< 0.5
Chloride	ppm	< 1	< 0.5	< 0.5
Phosphate	ppb	< 1000	< 500	< 500
Sulfate	ppb	< 1000	< 500	< 500
Sulfite	ppb	< 1000	< 500	< 500
Aluminum	ppb	< 50	< 50	< 10
Antimony	ppb	< 50	< 50	< 10
Arsenic	ppb	< 10	< 10	< 10
Barium	ppb	< 50	< 50	< 10
Beryllium	ppb	< 100	< 50	< 10
Bismuth	ppb	< 100	< 50	< 10
Boron	ppb	< 100	< 50	< 10
Cadmium	ppb	< 100	< 50	< 10
Calcium	ppb	< 100	< 50	< 10
Chromium	ppb	< 100	< 50	< 10
Cobalt	ppb	< 100	< 50	< 10
Copper	ppb	< 100	< 50	< 10
Gallium	ppb	< 100	< 50	< 10
Germanium	ppb	< 100	< 50	< 10
Gold	ppb	< 100	< 50	< 10
Iron	ppb	< 100	< 50	< 30
Lead	ppb	< 100	< 50	< 10
Lithium	ppb	< 100	< 50	< 10
Magnesium	ppb	< 100	< 50	< 10
Manganese	ppb	< 100	< 50	< 10
Molybdenum	ppb	< 100	< 50	< 10
Nickel	ppb	< 100	< 50	< 10
Niobium	ppb	< 100	< 50	< 10
Potassium	ppb	< 100	< 50	< 10
Silver	ppb	< 100	< 50	< 10
Sodium	ppb	< 300	< 50	< 10
Strontium	ppb	< 100	< 50	< 10
Tantalum	ppb	< 100	< 50	< 10
Thallium	ppb	< 100	< 50	< 10
Tin	ppb	< 100	< 50	< 10
Titanium	ppb	< 100	< 50	< 10
Vanadium	ppb	< 100	< 50	< 10
Zinc	ppb	< 100	< 50	< 10
Zirconium	ppb	< 100	< 50	< 10

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