

Brightchem Hydrochloric Acid (HCl)

**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

The electronic grade HCl is produced and handled with strict adherence to industry standards to meet the stringent requirements of the semiconductor,electronics and solar industry sector. In the semiconductor,electronics and solar industry, high-purity electronic grade HCl is used in various processes. It is a critical etchant for silicon wafer cleaning, surface preparation, and etching of metals.Prior to metal deposition, it is vitally important to keep wafer surfaces free of trace metals in integrated circuit manufacturing. Metallic impurities on the wafer surface can diffuse into a wafer, risking degrada- tion of device performance and yield loss.

One method for reducing these risks is to clean the wafer surface with ultra high-purity hydrochloric acid. Hydrochloric acid reacts with most metals to form water-soluble chlorides that can be easily rinsed away.

Specification	Units	Typical spec Guidelines		
		EL	VLSI	
Assay (wt %)	wt %	36 - 38	36 - 38	
Color	APHA	< 10	< 10	
Bromide	ppm	< 1	< 0.5	
Free Chlorine	ppm	< 1	< 0.5	
Phosphate	ppb	< 1000	< 500	
Sulfate	ppb	< 1000	< 500	
Sulfite	ppb	< 1000	< 500	
Aluminum	ppb	< 50	< 50	
Antimony	ppb	< 50	< 50	
Arsenic	ppb	< 10	< 10	
Barium	ppb	< 50	< 50	
Beryllium	ppb	< 100	< 50	
Bismuth	ppb	< 100	< 50	
Boron	ppb	< 100	< 50	
Cadmium	ppb	< 100	< 50	
Calcium	ppb	< 100	< 50	
Chromium	ppb	< 100	< 50	
Cobalt	ppb	< 100	< 50	
Copper	ppb	< 100	< 50	
Gallium	ppb	< 100	< 50	
Germanium	ppb	< 100	< 50	
Gold	ppb	< 100	< 50	
Iron	ppb	< 100	< 50	
Lead	ppb	< 100	< 50	
Lithium	ppb	< 100	< 50	
Magnesium	ppb	< 100	< 50	
Manganese	ppb	< 100	< 50	
Molybdenum	ppb	< 100	< 50	
Nickel	ppb	< 100	< 50	
Niobium	ppb	< 100	< 50	
Potassium	ppb	< 100	< 50	
Silver	ppb	< 100	< 50	
Sodium	ppb	< 300	< 50	
Strontium	ppb	< 100	< 50	
Tantalum	ppb	< 100	< 50	
Thallium	ppb	< 100	< 50	
Tin	ppb	< 100	< 50	
Titanium	ppb	< 100	< 50	
Vanadium	ppb	< 100	< 50	
Zinc	ppb	< 100	< 50	
Zirconium	ppb	< 100	< 50	

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