

Brightchem Ammonia Solution (NH₃)

**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

Ammonium hydroxide (NH₄OH), also known as aqueous ammonia, is a basic solution formed by dissolving ammonia gas in water. It can behave as a mild etchant or a strong cleaning agent, depending on concentration and temperature. In the semiconductor context, ammonium hydroxide solutions are commonly combined with hydrogen peroxide to create the well-known “SC1” cleaning solution (Standard Clean 1). This mixture effectively removes organic residues, particles, and certain metallic contaminants from the wafer surface without excessive etching of silicon.

Specification	Units	Typical spec Guidelines		
		EL	VLSI	ULSI
Assay (wt %)	wt %	25 ± 1 , 28 ± 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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