

CORCO CHEMICAL CORPORATION

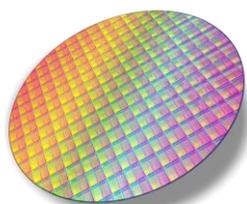


PRODUCT SPECIFICATION

Manufacturers of ACS
Reagent and Semiconductor
Grade Chemicals

Ammonium Hydroxide – 30 % SEMICONDUCTOR GRADE

SPECIFICATION	MAXIMUM LIMITS	SPECIFICATION	MAXIMUM LIMITS	SPECIFICATION	MAXIMUM LIMITS
Assay (as NH ₃)	28-30%	Aluminum (Al)	0.3 ppm	Tin (Sn)	0.3 ppm
Color (APHA)	10	Boron (B)	0.1 ppm	Titanium (Ti)	0.3 ppm
Appearance	Pass Test	Calcium (Ca)	0.3 ppm	Zinc (Zn)	0.3 ppm
Residue after Ignition	3 ppm	Chromium (Cr)	0.2 ppm		
Substance Red KMnO ₄	Pass Test	Copper (Cu)	0.1 ppm		
Carbon Dioxide (CO ₂)	20 ppm	Iron (Fe)	0.1 ppm		
Chloride (Cl)	0.5 ppm	Magnesium (Mg)	0.3 ppm		
Total Sulfur (as SO ₄)	1 ppm	Manganese (Mn)	0.2 ppm		
Phosphate (PO ₄)	0.5ppm	Nickel (Ni)	0.1 ppm		
Heavy Metals (as Pb)	0.2 ppm	Potassium (K)	0.3 ppm		
Arsenic & Antimony (as As)	0.05 ppm	Sodium (Na)	0.3 ppm		



Office and Plant

299 Cedar Lane
Fairless Hills, PA 19030

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PRODUCT SPECIFICATION

Manufacturers of ACS
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Grade Chemicals

Ammonium Hydroxide

ACS REAGENT GRADE

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from Suspended mater or sediment
Assay	28% - 30%
Residue after Ignition	0.002%
Carbon Dioxide (CO ₂)	0.002%
Phosphate (PO ₄)	2 ppm
Chloride	0.5 ppm

SPECIFICATION	MAXIMUM LIMITS
Heavy Metals (as Pb)	0.5 ppm
Iron (Fe)	0.2 ppm
Sub. Red. Permanganate	Passes Test
Nitrate (NO ₃)	2 ppm
Total Sulfur (as SO ₄)	2 ppm
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