



## Specification

### Ammonium Hydroxide 28-30%

#### Semiconductor Grade/ACS Grade

<u>Property</u>	<u>Specification</u>
Appearance	Clear, colorless liquid
Assay	28.0-30.0%
Color	10 APHA maximum
Residue after Ignition	20 ppm maximum
Carbon Dioxide	20 ppm maximum
Chloride	0.5 ppm maximum
Nitrate	2 ppm maximum
Phosphate	0.5 ppm maximum
Total Sulfur	1 ppm maximum
Reducing Substances Permanganate	Passes Test
Aluminum	0.3 ppm maximum
Arsenic and Antimony	0.05 ppm maximum
Boron	0.1 ppm maximum
Calcium	0.3 ppm maximum
Chromium	0.2 ppm maximum
Copper	0.1 ppm maximum
Heavy Metals	0.5 ppm maximum
Iron	0.1 ppm maximum
Lead	0.2 ppm maximum
Magnesium	0.3 ppm maximum
Manganese	0.2 ppm maximum
Nickel	0.1 ppm maximum
Potassium	0.3 ppm maximum
Sodium	0.3 ppm maximum
Tin	0.3 ppm maximum
Titanium	0.3 ppm maximum
Zinc	0.3 ppm maximum