

## Ammonia (NH<sub>3</sub>)

A colorless, toxic, alkaline, flammable, liquefied gas with a pungent odor, irritating to eyes, skin and mucous membranes in high concentrations.

Grade	% Purity	O <sub>2</sub>	H <sub>2</sub> O	THC	CO <sub>2</sub>	CO	H <sub>2</sub>
Semiconductor <sup>(#)</sup> <sup>(1)</sup>	99.99994	0.1	0.2	0.05	0.1	0.05	0.1
Electronic	99.9995	1	3	1	1		
Premium	99.995		33				
Anhydrous	99.99						

Concentrations given are ppm by volume unless otherwise specified.

### Notes

<sup>(#)</sup>Semiconductor grade valve material is SS, DISS 720 only.

<sup>(1)</sup> Metals analysis available for Sb, Cd, Ca, Cr, Co, Cu, Ga, Pb, Li, Mg, Mn, Mo, Ni, K, Si, Na, Te, Sn, Zn

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA, DISS)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
Semiconductor	300	55	720	AM SM300DS	114	Single-Stage Regulator Y11-E464C660	0-100	E29
	Certificate of Analysis provided upon request.							
Electronic	200	52	660	AM EL200	114	Cross Purge Y99-CPA4660	0-100	E50
	150A	35	660	AM EL15A	114			
	80	21	660	AM EL80	114			
Certificate of Conformance provided upon request.						Tee Purge Y99-TP4C660		E51
Premium	200	52	660	AM PR200	114	Single-Stage Regulator Y11-C520C705	0-50	E45
	150A	35	660	AM PR15A	114			
	80	21	660	AM PR80	114			
	Certificate of Conformance provided upon request.							
						Tee Purge Y99-TP4C705		E51
Anhydrous	400 <sup>(2)</sup>	150	240/705	AM AH400	114			
	200	52	240/705	AM AH200	114			
	80	21	240/705	AM AH80	114			
	Certificate of Conformance provided upon request.							
<sup>(2)</sup> Available only in Anhydrous grade								

Technical Data & Shipping Information		Ask your Airgas® representative about our unmatched bulk ammonia supply capabilities.
Molecular Weight	17.0305	
Specific Volume	22.72 cf/lb @70° F & 1 ATM	
Flammability Limits in Air	15 - 28% in Air	
U.S. DOT Name	Ammonia, Anhydrous	
ID Number	UN 1005	
U.S. DOT Hazard Class	2.2	
U.S. DOT Label	Inhalation Hazard	
CAS Registry	7664-41-7	

### Airgas Quality Policy

The purpose of the Airgas Quality System is to continually improve our manufacturing and related processes to provide our customers with the highest product purity, consistency, and service.