

## Nitrous Oxide (N<sub>2</sub>O)

A colorless, oxidizing liquified gas.

Grade	% Purity	N <sub>2</sub>	O <sub>2</sub> + Ar	THC	CO	CO <sub>2</sub>	H <sub>2</sub> O	NH <sub>3</sub>	NO	NO <sub>2</sub>
VLSI	99.9999	0.3	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.3
Semiconductor <sup>(#)</sup>	99.999	2	2	0.2	0.5	2	2	0.5	0.3	0.2
Ultra High Purity	99.99	25	2	1	10	10	3	25	2	1
Atomic Absorption/CP	99.6	3200	800				50			
Cryocath <sup>(1)</sup>	99.5						10			
Cryocath <sup>(1)</sup> Unanalyzed	99.5						50			

Concentrations given are ppm by volume unless otherwise specified.

### Notes

<sup>(1)</sup> Cryocath Grade filled to 10 lbs. in customer owned cylinders equipped with CGA 326 valve.

<sup>(#)</sup> Semiconductor grade valve material is brass for standard CGA connection. Cylinders can be provided with SS or DISS valves and additional proper regulator options upon request.

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
VLSI	150A	40	326	NS VL15A	745	Two-Stage Regulator Y12-C445 * 326	A = 0-25 B = 0-50 D = 0-100 E = 0-150	E28
	33A	6	326	NS VL33A	745			
Certificate of Analysis included.								
Semiconductor	200	60	326	NS SM200	745	Single-Stage Regulator Y11-C444 * 326	A = 0-25 B = 0-50 D = 0-100 E = 0-150	E27
	150A	40	326	NS SM15A	745			
Individual or Batch Certificate of Analysis available upon request.								
Ultra High Purity (UHP)	200	60	326	NS UHP200	745	* Insert Delivery Pressure Range Code	A = 0-25 B = 0-50 D = 0-100 E = 0-150	E9
	80	20	326	NS UHP80	745			
Individual or Batch Certificate of Analysis available upon request.								
Atomic Absorption/CP (AA)	200	60	326	NS AA200	745	Two-Stage Regulator Y12-215 * 326	A = 0-25 B = 0-50 D = 0-100 E = 0-150	E8
	80	20	326	NS AA80	745			
Individual or Batch Certificate of Analysis available upon request.								
* Insert Delivery Pressure Range Code								

Technical Data & Shipping Information		Nitrous Oxide is also available in medical and food grades. Ask your Airgas representative for details.
Molecular Weight	44.0128	
Specific Volume	8.79 cf/lb @70° F & 1 ATM	
Flammability Limits in Air	Oxidizer	
U.S. DOT Name	Nitrous Oxide	
ID Number	UN 1070	
U.S. DOT Hazard Class	2.2	
U.S. DOT Label	Nonflammable Gas & Oxidizer	
CAS Registry	10024-97-2	

### 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.