

A colorless, sweet-tasting, oxidizing gas.

Nitrous Oxide

Technical Information:	
Chemical Symbol:	N ₂ O
Molecular Weight:	44.01
Specific Volume:	8.7 ft ³ /lb (0.54 m ³ /kg)
CAS Registry Number:	10024-97-2

Shipping Information:	
DOT Proper Name:	Nitrous Oxide, Compressed
Hazard Class:	2.2
I.D. Number:	UN 1070
Labels:	Nonflammable Gas, Oxidizer

Grade	Part No.	Purity	Impurity	Specification	Equipment Recommended
VLSI 5.0	N2O-VL-XX	99.999%	Nitrogen Oxygen Carbon Dioxide Total Hydrocarbons Moisture Carbon Monoxide Ammonia Nitric Oxide Nitrogen Dioxide Halogens	< 5 ppm < 2 ppm < 2 ppm < 1 ppm < 3 ppm < 1 ppm < 5 ppm < 0.5 ppm < 0.5 ppm < 0.5 ppm	400 series stainless steel regulator
4.5	N2O-45-XX	99.995%	Oxygen Moisture Nitrogen Total Hydrocarbons CO/CO ₂	< 5 ppm < 5 ppm < 20 ppm < 5 ppm < 5 ppm	300 series brass regulator 308 series heated regulator
3.0	N2O-30-XX	99.9%	Nitrogen Oxygen Carbon Dioxide Total Hydrocarbons Moisture Carbon Monoxide	< 400 ppm < 100 ppm < 250 ppm < 30 ppm < 50 ppm < 50 ppm	200 series brass regulator 308 series heated regulator
AA 2.6	N2O-26-XX	99.6%	Moisture O ₂ /N ₂	< 30 ppm < 2000 ppm	200 series brass regulator 308 series regulator

XX - Complete the part number with the desired cylinder size listed below. (ie. N2O-VL-200)

Standard Cylinder Sizes *	Contents lb	Cylinder Pressure PSIG	CGA Valve Connection
200	60	745	326

*Nonstandard cylinder sizes available upon request