

Nitrous Oxide

A colorless, sweet-tasting, oxidizing gas

Middlesex Gases & Technologies, Inc.
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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
ID Number	UN 1070
Labels	Nonflammable Gas, Oxidizer

CYLINDER SIZES AVAILABLE

Std. Cylinder Sizes*	Contents	Cylinder Pressure (PSIG)	CGA Valve Connection
200	60	745	326

*Nonstandard cylinder sizes available upon request

Specifications Subject to Change Call to Confirm

Grade	Purity	Impurity	Specifications	Equipment Recommended
5.0 (Liquid Phase)	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	3101,3201,3401
4.5	99.995%	Oxygen Moisture Nitrogen Total Hydrocarbons C ₀ /CO ₂	< 5 ppm < 5 ppm < 20 ppm < 5 ppm < 5 ppm	3101,3201,3401
3.0	99.9%	Nitrogen Oxygen	< 400 ppm < 100 ppm	3101,3201,3401
2.6	99.6%	Moisture O ₂ /N ₂	< 30ppm < 2000ppm	3101,3201,3401