

Nitrous Oxide

Description

Formula: N_2O
Synonyms: Nitrogen Monoxide, Dinitrogen Monoxide, Laughing Gas

Gas Data

Molecular Weight: 44.01
Density: 1.947 kg/m³ @ 21.1°C, 101.325 kPa
0.1215 lb/ft³ @ 70°F, 14.696 psia
Specific Volume: 0.5136 m³/kg @ 21.1°C, 101.325 kPa
8.230 ft³/lb @ 70°F, 14.696 psia

Shipping Information

CAS Registry Number: 10024-97-2
UN Number: UN 1070
ECCN Number: EAR99
DOT Proper Shipping Name: Nitrous Oxide
DOT Classification: 2.2 (Nonflammable Gas)
DOT Label: NON-FLAMMABLE GAS,
OXIDIZER
TC Shipping Name: Nitrous Oxide, Compressed
TC Classification: 2.2, 5.1
TC Label: NON-FLAMMABLE GAS,
NON-POISONOUS GAS,
OXIDIZER

Cylinder Specifications

Cylinder Size	Content		Valve Outlet CGA No.
	US	Metric	
56#	56 lb	12.80 kg	326
20#	20 lb	4.57 kg	326



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Nitrous Oxide *(continued)*

Liquid Containers

Liters	Base Type	Content		Relief Valve Setting
		US	Metric	
160	Footring Base	0 ft ³	0 m ³	230 psi
160	Footring Base	3,200 ft ³	80 m ³	350 psi
180	Footring Base	0 ft ³	0 m ³	230 psi
180	Footring Base	3,500 ft ³	90 m ³	350 psi
200	Footring Base	0 ft ³	0 m ³	230 psi
200	Footring Base	3,800 ft ³	100 m ³	350 psi
230	Caster Base	0 ft ³	0 m ³	230 psi
230	Caster Base	4,300 ft ³	115 m ³	230 psi
265	Caster Base	0 ft ³	0 m ³	230 psi
265	Caster Base	5,000 ft ³	130 m ³	350 psi
80	Footring Base	1,500 ft ³	40 m ³	350 psi
180	Footring Base	3,500 ft ³	90 m ³	350 psi
200	Footring Base	3,300 ft ³	85 m ³	500 psi
450	Pallet Base	0 ft ³	0 m ³	350 psi

Note: Caster base liquids can be purchased with round base or square base



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