



Nitric Oxide

Description

Formula: NO
 Synonym: Nitrogen(II) Oxide


Gas Data

Molecular Weight: 30.01
 Density: 1.25 kg/m³ @ 21.1°C, 101.325 kPa
 0.0781 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.800 m³/kg @ 21.1°C, 101.325 kPa
 12.8 ft³/lb @ 70°F, 14.696 psia

Safety Information

Permissible Exposure
 Limit (TLV): 25 ppm

Shipping Information

CAS Registry Number: 10102-43-9
 UN Number: UN 1660
 ECCN Number: EAR99
 DOT Proper Shipping Name: Nitric Oxide, Compressed
 DOT Classification: 2.3, Hazard Zone A (gas poisonous by inhalation)
 DOT Label: INHALATION HAZARD 
 OXIDIZER, CORROSIVE GAS
 TC Shipping Name: Nitric Oxide
 TC Classification: 2.3, 5.1, 8
 TC Label: POISON GAS, OXIDIZER, CORROSIVE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1P	660	500	3,447	136	62
2P	660	500	3,447	75	34
3P	660	500	3,447	39	18
6P	660	500	3,447	20	9
1R	660	500	3,447	62	28

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	Page No.
Nitric Oxide, UHP 99.5% <i>Guaranteed Specifications</i>	G2659782	1P	56 ft ³	1.59 m ³	Single Stage Reg.	Series 3610A-660	316
	G2659783	1R	38 ft ³	1.1 m ³	Cross Purge	4774-660	422
Nitrous Oxide < 1000 ppm					Personal Monitor	IQ250	398
Nitrogen < 3000 ppm					Leak Detector	8081A	404
Carbon Dioxide < 1000 ppm					Detector Tube	8014-1755A	392
Water < 20 ppm							
<i>A Certificate of Conformance will be provided on request.</i>							
<i>A lot analysis is available at a nominal charge.</i>							
<i>* The impurity specifications are at the date of analysis in the 1P. Certain impurities may increase over time in a steel cylinder.</i>							
Nitric Oxide, CP Grade 99%	G1555116	1P	56 ft ³	1.59 m ³	Single Stage Reg.	Series 3610A-660	316
	G1555146	2P	20 ft ³	0.57 m ³	Cross Purge	4774-660	422
	G1555157	3P	8 ft ³	0.23 m ³	Personal Monitor	IQ250	398
	G1555173	6P	1.2 ft ³	30 L	Leak Detector	8081A	404
					Detector Tube	8014-1755A	392
<i>A Certificate of Conformance will be provided on request.</i>							