

## Nitric Oxide

NO

Nitric oxide is produced by reacting aqueous nitric acid with gaseous sulfur dioxide in a gas-liquid contact reactor. The reaction is conducted in the presence of a stoichiometric excess of nitric acid to minimize the production of byproduct nitrous oxide and nitrogen. The nitric oxide product gas is chilled sufficiently to freeze most of the water and byproduct nitrogen dioxide contained in the nitric oxide product gas.

### Standard Specifications

<b>PURITY / ASSAY</b>	<b>2.5</b>
<b>IMPURITIES (MOL %)</b>	<b>99.5%</b>
<b>Nitrogen</b>	< 3000
<b>Nitrous Oxide</b>	< 1000
<b>Carbon Dioxide</b>	< 1000
<b>Moisture **</b>	< 20
<b>Total Impurities</b>	< 5000

\*\* Moisture Specification only guaranteed if cylinders prepared by AGT International.

### Standard Cylinder Sizes and Fill Volumes

#### CYLINDER INFORMATION

CYLINDER SIZE	FILL VOLUME (m3)
H49	1.76 @ 35 bar
H44	1.58

\* Fill volumes are nominal for 2400 psi cylinders. Under US law carbon monoxide may be filled into steel cylinders at 5/6 of working pressure or 2000 psi whichever is lower. For aluminium cylinders, cylinders may be filled to full maximum working pressure.

### Technical Information

TECHNICAL DATA		SHIPPING INFORMATION	
<b>Molecular Weight (g/mol)</b>	30.006	<b>Shipping Name</b>	Nitric Oxide, compressed
<b>Liquid Density (kg/m<sup>3</sup>)</b>	1,280.84	<b>Hazard Class</b>	2.3
<b>Gas Density (kg/m<sup>3</sup>)</b>	3.027	<b>UN No.</b>	UN 1660
<b>Boiling Point (0°C)</b>	-151.77	<b>Hazard Label</b>	Poison Gas, Oxidiser, Corrosive
<b>Specific Volume (m<sup>3</sup>/kg)</b>	0.805	<b>CAS No.</b>	10102-43-9
<b>Vapour Pressure (bar.a)</b>	N/A		
<b>Valve Outlet</b>	CGA 660		

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AGT International provides businesses with Shorter lead times, Higher Inventory Levels, Guaranteed Quality and Lower Costs.

PRODUCTS  
AGT International supplies a comprehensive range of hydrocarbon gases and liquids and associated special gases.

CYLINDERS  
AGT International has a wide range of cylinders and bulk containers available for either purchase or rent as well as being able to fill customer owned cylinders.

CONTACT  
Please contact us if the specification you require is not shown above. AGT International is able to custom manufacture different specifications according to your requirements.  
<http://www.agti.biz/>