

Nitric Oxide

NO

Grade	Semicon 2N5	ULSI 3N	ULSI 3N5	ULSI 4N
Purity, %	99.5	99.9	99.95	99.99
Oxygen				≤1 ppmv
Nitrogen	≤3,000 ppmv	≤500 ppmv	≤100 ppmv	≤30 ppmv
Carbon Dioxide	≤1,000 ppmv	≤100 ppmv	≤50 ppmv	≤1 ppmv
THC (CH ₄)				≤1 ppmv
Water	≤20 ppmv	≤5 ppmv	≤2 ppmv	≤1 ppmv
Hydrogen				≤1 ppmv
Nitrous Oxide	≤1,000 ppmv	≤500 ppmv	≤50 ppmv	≤30 ppmv
Nitrogen Dioxide		≤100 ppmv	≤100 ppmv	≤30 ppmv

- A lot analysis is provided for each order – Individual analysis is also available upon request.
- For ULSI PLUS Grade, a Metals analysis is provided upon request.

CYLINDER	Internal Volume	Liters	43.8
	Cylinder Sizes >>		QF
	Content	m ³	1.58
		ft ³	56
	Cylinder Pressure*	atm	36.2
psig		500	

* @ NTP

SHIP	DOT Shipping Name	Nitric Oxide Compressed	UN Number	UN 1660	Shipped as
	DOT Classification	2.3 Hazard Zone A (Gas Poisonous by Inhalation)	ECCN #	EAR99	Compressed Gas
	DOT Label	INHALATION HAZARD, OXIDIZER CORROSIVE GAS	Harmonized #	2811.29.0000	

TECHNICAL DATA	Boiling Point @NTP	-89.5°C
	Triple Point	-90.8°C
	Specific Volume	0.8 m ³ /kg
		@NTP 12.8 ft ³ /lb
	CAS No	10102-43-9
	CGA/DISS/JIS	660/728/W22-14R
	Molecular Weight	30.01 g/mol
TLV	25 ppmv	

Critical Temperature	-93°C	-135.4°F
Critical Pressure	66 atm	940.6 psia

RFO Data @ 500 psig	Size, mm	0.254	0.3556	0.508	0.762	1.016
	Size, inches	0.010	0.014	0.020	0.030	0.040
	Flow, sccm	20121	38413	79265	176823	304867
	Flow, scf/h	43	81	168	375	646

NTP = 21°C or 70°F and 101.3 kPa or 1 atm

Cylinder	Treatment	Nominal Diameter (OD)xHeight*		Material of Construction	
		cm	Inches	Cylinder	Valve
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS

*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ center of the valve outlet/ top of the handwheel
CS: Carbon Steel SS: Stainless Steel

⚠ WARNING: This product can expose you to chemicals including Nitrous Oxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

