Grade	Semicon 4N5	ULSI 5N
Purity, %	99.995	99.999
Oxygen	≤2 ppmv	≤2.0 ppmv
Nitrogen	≤7 ppmv	≤2.0 ppmv
Carbon Dioxide	≤2 ppmv	≤2.0 ppmv
Carbon Monoxide		≤0.1 ppmv
Methane	≤1 ppmv	≤0.1 ppmv
Water		≤2.0 ppmv
Ammonia		≤0.5 ppmv
Nitric Oxide and Nitrogen Dioxide		≤0.5 ppmv

- A lot analysis is provided for each order. Individual analysis is also available upon request.
- Pneumatic valves and JIS connections are available upon request.

CYLINDER	Internal Volume Liters		43.8	
	Cylinder Sizes >>	QF/QA/QB		
	Content	kg	27.3 or 27	
	Content	lbs	60	
	Cylinder Pressure @STP	psig	745	
		atm	53.4	
	Change Point*	lbs	16.6	

<sup>\*</sup>Recommended Cylinder Change Point at NTP, based on Phase Break, or the amount of product left in the cylinder when the liquid phase has completely evaporated and only gaseous product is left (estimate based on ideal gas behavior).

	DOT Shipping Name	Nitrous Oxide	UN Number	UN 1070	Shipped as
SHIP	DOT Classification	2.2 (Non-Flammable Gas)	ECCN#	EAR99	Liquefied
· ·	DOT Label	NON-FLAMMABLE GAS OXIDIZER	Harmonized #	2811.29.0000	Gas

DATA	Specific Volume	0.543 m³/kg	
Г Б/	@NTP	8.7 ft <sup>3</sup> /lb	
<u>C</u>	CAS No	10024-97-2	
HNIC	CGA/DISS/JIS	326/712/W22-14R	
띹	Molecular Weight	44.01 g/mol	

Critical Temperature	36.4°C	97.6°F	
Critical Pressure	73.9 atm	1,052.2 psia	

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

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

<sup>\*</sup>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.

△WARNING: This product can expose you to chemicals including Carbon Monoxide, 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.

