Nitric Oxide

<table>
<thead>
<tr>
<th>Grade</th>
<th>Semicon 2N5</th>
<th>ULSI 3N</th>
<th>ULSI 3N5</th>
<th>ULSI 4N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity, %</td>
<td>99.5</td>
<td>99.9</td>
<td>99.95</td>
<td>99.99</td>
</tr>
<tr>
<td>Oxygen</td>
<td></td>
<td></td>
<td>≤1 ppmv</td>
<td></td>
</tr>
<tr>
<td>Nitrogen</td>
<td>≤3,000 ppmv</td>
<td>≤500 ppmv</td>
<td>≤100 ppmv</td>
<td>≤30 ppmv</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>≤1,000 ppmv</td>
<td>≤100 ppmv</td>
<td>≤50 ppmv</td>
<td>≤1 ppmv</td>
</tr>
<tr>
<td>THC (CH₄)</td>
<td></td>
<td></td>
<td>≤1 ppmv</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>≤20 ppmv</td>
<td>≤5 ppmv</td>
<td>≤2 ppmv</td>
<td>≤1 ppmv</td>
</tr>
<tr>
<td>Hydrogen</td>
<td></td>
<td></td>
<td>≤1 ppmv</td>
<td></td>
</tr>
<tr>
<td>Nitrous Oxide</td>
<td>≤1,000 ppmv</td>
<td>≤500 ppmv</td>
<td>≤50 ppmv</td>
<td>≤30 ppmv</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>≤100 ppmv</td>
<td>≤100 ppmv</td>
<td>≤30 ppmv</td>
<td></td>
</tr>
</tbody>
</table>

- 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 Sizes >>**

| Internal Volume | Liters | 43.8 |
| Content        | m³ | 1.58 |
|                | ft³ | 56  |
| Cylinder Pressure* | atm | 36.2 |
|                | psig | 500 |

* @ NTP

**DOT Shipping Name**

- Nitric Oxide Compressed
- UN Number: UN 1660
- UN 1660: Shipped as Compressed Gas
- ECCN #: EAR99
- Harmonized #: 2811.29.0000
- Hazard Zone A
- Gas Poisonous by Inhalation

**DOT Label**

- INHALATION HAZARD, OXIDIZER CORROSIVE GAS

**Boiling Point @NTP**

- -89.5°C
- -90.8°C

**Triple Point**

- 10102-43-9
- 660/728/W22-14R
- 660/728/W22-14R
- 30.01 g/mol
- 12.8 ft³/lb

**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

**TECHNICAL DATA**

- 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

**Cylinder Treatment**

- QF ULTRA-LINE®
- 23x130/134/143
- 9x51/52.5/56
- CS SS

**Nominal Diameter (OD)xHeight**

- Nominal Diameter (OD)xHeight
- Material of Construction
- Cylinder Valve

*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