**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  
**Specific Volume:** 0.800 m³/kg @ 21.1°C, 101.325 kPa

**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**

<table>
<thead>
<tr>
<th>Cylinder Size</th>
<th>Valve Outlet Pressure psig @ 70°F</th>
<th>Pressure kPa @ 21.1°C</th>
<th>Approximate Ship Weight lb</th>
<th>Approximate Ship Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P</td>
<td>660</td>
<td>500</td>
<td>3,447</td>
<td>136</td>
</tr>
<tr>
<td>2P</td>
<td>660</td>
<td>500</td>
<td>3,447</td>
<td>75</td>
</tr>
<tr>
<td>3P</td>
<td>660</td>
<td>500</td>
<td>3,447</td>
<td>39</td>
</tr>
<tr>
<td>6P</td>
<td>660</td>
<td>500</td>
<td>3,447</td>
<td>20</td>
</tr>
<tr>
<td>1R</td>
<td>660</td>
<td>500</td>
<td>3,447</td>
<td>62</td>
</tr>
</tbody>
</table>

**Gas Grade Purity Specifications**

**Nitric Oxide, UHP 99.5%**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Cylinder Size</th>
<th>US Content</th>
<th>Metric Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>G2659782</td>
<td>1P</td>
<td>56 ft³</td>
<td>1.59 m³</td>
</tr>
<tr>
<td>G2659783</td>
<td>1R</td>
<td>38 ft³</td>
<td>1.1 m³</td>
</tr>
</tbody>
</table>

**Guaranteed Specifications**

- Nitrous Oxide < 1000 ppm
- Nitrogen < 3000 ppm
- Carbon Dioxide < 1000 ppm
- Water < 20 ppm

*A Certificate of Conformance will be provided on request. A lot analysis is available at a nominal charge.*

**Nitric Oxide, CP Grade 99%**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Cylinder Size</th>
<th>US Content</th>
<th>Metric Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1555116</td>
<td>1P</td>
<td>56 ft³</td>
<td>1.59 m³</td>
</tr>
<tr>
<td>G1555146</td>
<td>2P</td>
<td>20 ft³</td>
<td>0.57 m³</td>
</tr>
<tr>
<td>G1555157</td>
<td>3P</td>
<td>8 ft³</td>
<td>0.23 m³</td>
</tr>
<tr>
<td>G1555173</td>
<td>6P</td>
<td>1.2 ft³</td>
<td>30 L</td>
</tr>
</tbody>
</table>

**Equipment Recommendations**

- Single Stage Reg. Series 3610A-660 316
- Cross Purge 4774-660 422
- Personal Monitor IQ250 398
- Leak Detector 8081A 404
- Detector Tube 8014-175SA 392

*The impurity specifications are at the date of analysis in the 1P. Certain impurities may increase over time in a steel cylinder.*

*A Certificate of Conformance will be provided on request.*