**Non refillable 10ml (8g) Nitrous Oxide (N2O) filled charger - crimped closure**

**PRODUCT**

10ml (8g) N2O filled charger - crimped closure Art. No.: 0080, 0084, 0085, 0087, 0088, 30601, 30602 and others.

**DESCRIPTION AND USES:**

A disposable steel cylinder containing nitrous oxide at high pressure. The contents are released by piercing a metal cap. Principal use is in conjunction with appliances designed for producing whipped cream for commercial and home consumption.

**TECHNICAL DATA**

- **External surface:** lacquered, colour- pink or silver
- **Sealing method:** Piercable metal cap, crimp closed on to neck opening
- **Material of body:** special deep drawing steel

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>METRIC UNITS</th>
<th>US/IMPERIAL UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length:</td>
<td>65,0 (± 0,5) mm</td>
<td>2,56 (± 0,02) in</td>
</tr>
<tr>
<td>Body Diameter:</td>
<td>18,0 (± 0,2) mm</td>
<td>0,709 (± 0,008) in</td>
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<tr>
<td>Neck Diameter:</td>
<td>8,7 (± 0,2) mm</td>
<td>0,343 (± 0,008) in</td>
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<tr>
<td>Thickness of sealing cap:</td>
<td>0,4 mm</td>
<td>0,016 in</td>
</tr>
<tr>
<td>Internal Volume (Approx.):</td>
<td>10,3 ml</td>
<td>0,63 in³</td>
</tr>
<tr>
<td>Net weight of N2O:</td>
<td>7,5 (± 0,25) g</td>
<td>0,265 oz</td>
</tr>
<tr>
<td>Tare wt. of charger (Approx.):</td>
<td>20 g</td>
<td>0,70 oz</td>
</tr>
<tr>
<td>Gross wt. of charger (Approx.):</td>
<td>27,5 g</td>
<td>0,97 oz</td>
</tr>
<tr>
<td>Bursting pressure:</td>
<td>&gt; 50 MPa</td>
<td>&gt; 7250 lbf/in²</td>
</tr>
<tr>
<td>Pressure/Temperature</td>
<td>5,2 MPa at 20°C</td>
<td>754 lbf/in² at 68°F</td>
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<tr>
<td>Characteristics</td>
<td>16,5 MPa at 50°C</td>
<td>2392 lbf/in² at 122°F</td>
</tr>
<tr>
<td>at filling density of</td>
<td>25,5 MPa at 70°C</td>
<td>3697 lbf/in² at 158°F</td>
</tr>
<tr>
<td>0,75 kg/litre:</td>
<td>38,5 MPa at 100°C</td>
<td>5582 lbf/in² at 212°F</td>
</tr>
<tr>
<td>42,5 MPa at 110°C</td>
<td>6162 lbf/in² at 230°F</td>
<td></td>
</tr>
</tbody>
</table>

**NITROUS OXIDE:**

Gas supplied in accordance to iSi Spec. TLV 0193 / E942 (99% N2O) USP, EU.PH.

- **Gas density at 0,1 MPa:** 1,836 kg/m³ at 20,0°C 0,115 lb/cu ft at 68°F
- **Relative density (air=1):** 1,53 at 20,0°C 1,53 at 68°F
- **Critical temperature:** 36,5°C 98°F
- **Molecular weight:** 44,013
- **Appearance:**
  - vapour: colourless
  - liquid: clear
  - solid: colourless acicular crystals
- **Odour:** mildly sweet
- **Taste:** mildly sweet
- **Fire Hazard:** non-flammable
- **Toxicity:** non-toxic, in high concentrations may cause asphyxiation. recommended maximum 0,01% v/v for continuous working conditions.

Non aerosol

Author: QW/JAC | Inspector: #GL/DG:#VMC/SPI:# | Released from: VMC/SPI 2007-09-07
CAUTION:

Use cream whipper and chargers only in accordance with instruction.  
Do not inhale. Misuse can be physically harmful and dangerous to your health. See toxicity note above.  
Do not use for any other purpose.  
Do not heat. Maximum environmental temperature in use not to exceed 50° C (122° F).  
Chargers are under pressure.

HANDLING AND STORAGE:

Keep cool and dry, keep out of sun and heat.  
Never dispose of full chargers. Never ever use force.  
Keep out of reach of children. Keep this packaging until use of last charger.  
Recyclable steel.

Storage temperature limit: maximum 50°C 122° F

TRANSPORTATION AND STORAGE

UN No.: 2037  
Title: RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)

No dangerous goods by road and sea transport  
10ml (8g) N2O filled chargers are not classified as dangerous goods, therefore it is not necessary to label, transport and storage them as dangerous goods.

This classification can be found in the UN Recommendations on the Transport of Dangerous Goods (Model Regulations). UN No. 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable, Special Provision SP 191 specifies: "Receptacles, small, containing gas are not fitted with a release device. Receptacles with a capacity not exceeding 50 ml containing only non-toxic constituents are not subject to these Provisons"

The gas N2O (Nitrous Oxide) is classified according to UN Regulation as a Division 2.2 gas (non-flammable, non-toxic gases).