



Product Information

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page 1 of 2

8 g compressed gas Nitrous Oxide (N₂O) filled charger - crimped closure

for use of gas pressure only, N₂O gas not for human consumption

PRODUCT DESCRIPTION AND USES

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

TECHNICAL DATA

| | |
|-------------------|---|
| CAS number | 10024-97-2 |
| External surface: | polished steel or powder coat finish |
| Sealing method: | Piercable metal cap, crimp closed onto neck opening |
| Material of body: | special deep drawing steel |

| | <u>METRIC UNITS</u> | <u>US / IMPERIAL UNITS</u> |
|--|---------------------|-----------------------------------|
| Overall Length (approx): | 65 mm | 2.56 in |
| Body Diameter: | 18 mm | .709 in |
| Neck Diameter: | 8.7 mm | .343 in |
| Thickness of sealing cap: | .4 mm | .016 in |
| Internal Volume (approx): | 10.3 ml | .63 in ³ |
| Net weight of N ₂ O (approx): | 8.5 g | .34 oz |
| Tare wt. of charger (approx): | 21 g | .84 oz |
| Gross wt. of charger (approx): | 29 g | 1.16 oz |
| Bursting pressure: | >500 bar | >7250 lbf/in ² |
| Pressure / Temperature Characteristics | 52 bar at 20°C | 754 lbf/in ² at 68°F |
| at filling density of | 165 bar at 50°C | 2392 lbf/in ² at 122°F |
| .75 kg/liter: | 255 bar at 70°C | 3697 lbf/in ² at 158°F |
| | 385 bar at 100°C | 5582 lbf/in ² at 212°F |
| | 425 bar at 110°C | 6162 lbf/in ² at 230°F |

NITROUS OXIDE:

Gas supplied in accordance with BestWhip, Inc spec. TLV 0193 / E942 (99% N₂O) USP, EU.PH.

| | | |
|---------------------------|--------------------------------|----------------------------------|
| Gas density at 1 atm: | 1836 kg/m ³ at 20°C | .115 lb/ft ³ at 68° F |
| Relative density (air=1): | 1.53 at 20°C | 1.53 at 68° F |
| Critical Temperature: | 36.5° C | 98° F |
| Molecular weight: | 44.013 | |



NITROUS OXIDE (continued)

page 2 of 2

| | | |
|--------------|---|-----------------------------|
| Appearance: | vapor | colorless |
| | liquid | clear |
| | solid | colorless acicular crystals |
| Odor: | mildly sweet | |
| Taste: | mildly sweet | |
| Fire Hazard: | non-flammable | |
| Toxicity: | non-toxic, anaesthetic effect if inhaled | |
| | recommended maximum 0.01% v/v for continuous working conditions | |
| Non aerosol | | |

CAUTION:

Use chargers and dispensers only in accordance with instructions. Do not heat. Maximum environmental temperature in use not to exceed 50°C (122°F) Do not use for any other purpose. Do not inhale. Misuse can be physically harmful and dangerous to your health.

HANDLING AND STORAGE:

Keep cool and dry, keep away from direct sunlight and heat. Never dispose of full chargers. Never force open. Keep out of reach of children and minors.

Recyclable steel

| | | |
|----------------------------|------|-------|
| Storage temperature limit: | 50°C | 122°F |
|----------------------------|------|-------|

TRANSPORTATION:

| | |
|---------|---|
| UN No.: | Non hazardous |
| Title: | Special Provision 191 |
| | Receptables, small, containing gas (gas cartridges) |
| | Receptacles with capacity not exceeding 50 ml |
| | containing only non-toxic constituents, are not subject |
| | to provisions of IMDGC |

PACKAGING:

| | | |
|-------------|-------------------------|-----------------------------|
| Large case: | 25 boxes of 24 chargers | 600 total chargers per case |
| Small case: | 40 boxes of 10 | 400 total chargers per case |