



Product Information

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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	52 bar at 20°C	754 lbf/in ² at 68°F
Characteristics	165 bar at 50°C	2392 lbf/in ² at 122°F
at filling density of	255 bar at 70°C	3697 lbf/in ² at 158°F
.75 kg/liter:	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)

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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
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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