

iSi GmbH Kürschnergasse 4 A-1217 Viena / Austria	Product Information	No.: VMC.I.008.e.10
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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

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

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/m ³	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

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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 Provisions"

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