


iSi GmbH Kürschnergasse 4 A-1217 Vienna / Austria	Product Information	No.:SMB.I.008.e.03	
	Issue: April 2013	Page: 1 of 4	
Non- refillable 10ml (7,5)g Nitrous Oxide N2O filled charger-crimped closure			

PRODUCT

10ml (7.5g) N2O filled charger - crimped closure, available in packs of 5, 10, 24 or 50 pieces.

DESCRIPTION AND USES:

A disposable steel cylinder containing nitrous oxide at high pressure. The contents are released by piercing of the metal cap. Principal use is in conjunction with appliances designed for producing whipped cream, desserts, sauces and soups.

TECHNICAL DATA

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

DIMENSION	METRIC UNITS	US/IMPERIAL UNITS
Overall length:	65.0 (±0.5) mm	2.58 (±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
Filling density:	max. 0.75 kg/l	max. 0.75 kg/l
Bursting pressure:	> 50 MPa	> 7,250 lbf/in ²
Test pressure	23.5 MPa at 65° C	3,408 lbf/in ² at 149° F
Pressure/Temperature	5.2 MPa at 20° C	754 lbf/in ² at 68° F
Characteristics	16.5 MPa at 50° C	2,392 lbf/in ² at 122° F
at a filling density of	25.5 MPa at 70° C	3,697 lbf/in ² at 158° F
0.75 kg/litre:	38.5 MPa at 100° C	5,582 lbf/in ² at 212° F
	42.5 MPa at 110° C	6,162 lbf/in ² at 230° F

DESCRIPTION OF GAS:

Nitrous oxide, N2O (other description: laughing gas)

Approved food additive: E942 according to EC directive EC 178/2002 and 96/77/EC

CAS- number: 10024-97-2

ATC- code: N01AX13

PubChem: 948


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

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RLB OÖ AG BIC: RZOOAT2L
IBAN: AT34 3400 0000 0265 6486

Rechtsform: Gesellschaft m.b.H.
Sitz d. Gesellschaft: Wien
Handelsgericht Wien: FN 254605 w
UID-Nr: ATU 61211405

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Gas density at 0,1 MPa	1.836 kg/m ³	at 20° C	0.115 lb/cu ft 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		
Appearance:	vapour	colourless	
	liquid	colourless	
	solid	transparent white acicular crystals	
Odour		mildly sweet	
Taste		mildly sweet	
Fire Hazard		non-flammable, oxidizing	
Toxicity		non-toxic, in high concentrations may cause asphyxiation, recommended maximum 0.01% v/v for continuous working conditions.	

GENERAL PRODUCT INFORMATION

Customs tariff no.: 2811 29 30

GS certificate:

iSi Chargers are certified to ON M7388 "Transportable gas cylinders" by TUEV Rheinland Certificate No. S60022701.

Safety data sheet:

A separate Safety Data Sheet from the supplier of N2O is available.

WARNING NOTICES AND APPLICATION

Use cream whippers and chargers only in strict accordance to safety instructions and operating manuals.

Do not inhale. Misuse can be physically harmful and dangerous to your health. See toxicity note above.

Do not use for any other purpose.

Keep cool and dry. Do not heat. Keep out of sun and temperatures above 50° C (122° F).

Chargers are under pressure.

Never dispose of full chargers.

Never ever use force.

Keep out of reach of children.

Keep this packaging until use of last chargers.

Recycle empty chargers and packaging.

MINIMUM DURABILITY

The packaging of iSi cream chargers is marked with a 'best before' date. Although N2O is unperishable, the 'best before' date is defined with 5 years after packing. This will avoid exceeded storage time which could lead to problems of quality and hygiene (see also directive 2000/13/EC).

STORAGE:

N2O filled chargers are not classified as dangerous goods, therefore it is not necessary to label, transport and store them as dangerous goods.


Storage temperature limit: maximum 50°C 122° F

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TRACEABILITY

Each iSi cream charger is marked with an alpha numeric number in order to ensure the traceability and to increase the product safety (directive 89/396/EEC).



TRANSPORTATION WITHIN EUROPE

Non dangerous goods by road and sea transport. It is therefore not necessary to mark the chargers dangerous goods for transport by road and sea.

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

UN no.: 1070
Title: nitrous oxide

Special provision: 584

This gas is not subject to the requirements of ADR when:

- It contains not more than 0.5% air in vapour appearance
- It is contained in metal capsules (sodors, sparklets) free from defects which would impair their strength
- The leak tightness of the closure of the capsule is ensured
- A capsule contains not more than 25 g of this gas
- A capsule contains not more than 0.75g of gas per cm³ of capacity (=0.75 kg/l)

REACH- REGULATION

Cream chargers are classified according to EC 178/2002 as food respectively food additive and fulfil all requirements of this regulation. Products from EC 178/2002 are expressively excluded from the REACH regulation. See regulation EC 1907/2006/REACH, title I/chapter 1/ article 2/ clause 5b and 6d.


iSi GmbH

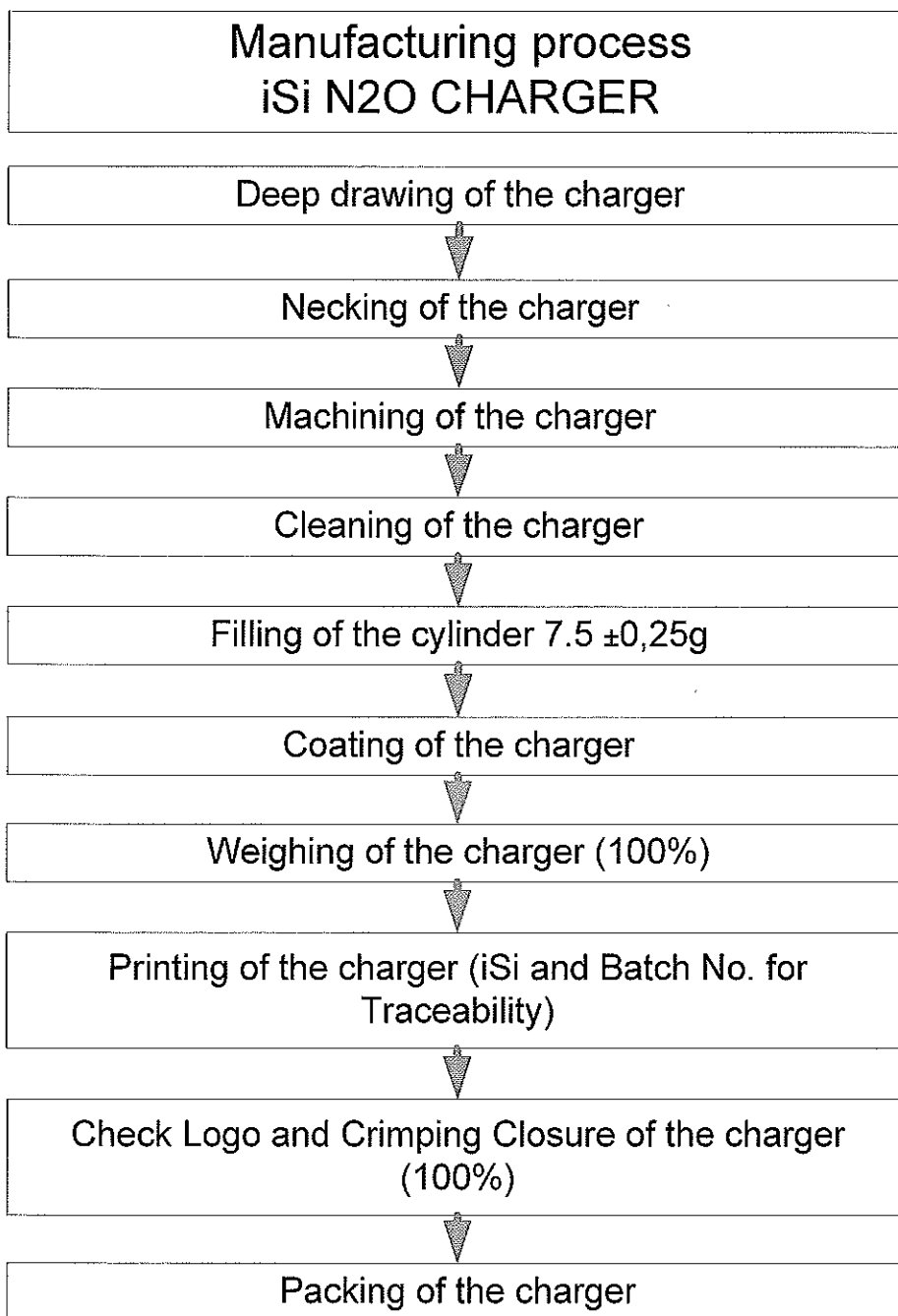
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Vienna, 4.4.2013


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