Product information – 8,4g (11,4ml) nitrous oxide chargers N₂O PIN.1016.e.01 | Valid from 24.08.2020 | Page 1 from 6



Producer Address

iSi Gmbh Kürschnergasse 4, A-1210 Vienna

| Name of product | Article-no.: |
|---|--|
| 8,4g (11,4ml) nitrous oxide (N_2O) chargers | 0702x, 0703x, 0715x, 0724x, 0745x, 0718x, 0712x |



8,4g (11,4ml) nitrous oxide chargers N₂O



Product information – 8,4g (11,4ml) nitrous oxide chargers N_2O



PIN.1016.e.01 | Valid from 24.08.2020 | Page 2 from 6

Inhaltsverzeichnis

| 1 | Description | 2 |
|-----|------------------------------------|---|
| 1.1 | Use | 2 |
| 2 | Technical data | 2 |
| 3 | Description of gas | 3 |
| 4 | General product information | 4 |
| 5 | Warning notices and application | 4 |
| 6 | Minimum durability | 4 |
| 7 | Storage | 4 |
| 8 | Traceability | 4 |
| 9 | Transportation | |
| 9.1 | Air transportation | 4 |
| 9.2 | Road, train and sea transportation | 4 |
| 10 | Reach-Regulation | 6 |
| 11 | Manufacturing process | 6 |
| | | |

1 Description

1.1 Use

A 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, desserts, foams, sauces and soups. Max. infused quantity 0.5l per charger.

2 Technical data

External surface: lacquered, colour silver-purple

Sealing method: pierceable metal cap with a sealing, crimp closed onto neck-opening of charger

Material of body: special deep drawing steel

Details and tolerances are given in the customer-drawing 60117002.

| DIMENSION | METRIC UNITS | US / IMPERIAL UNITS |
|---------------------------|--------------|---------------------|
| Overall length: | 65.3 mm | 2.570 in |
| Body Diameter: | 18.3 mm | 0.720 in |
| Neck Diameter: | 8.7 mm | 0.343 in |
| Thickness of sealing cap: | 0.4 mm | 0.016 in |

| Internal Volume (approx.) | 11.4 ml | 0.70 in ³ |
|---------------------------------|---------|----------------------|
| Net weight of N ₂ O: | 8.4 g | 0.296 oz |

Product information – 8,4g (11,4ml) nitrous oxide chargers N_2O



PIN.1016.e.01 | Valid from 24.08.2020 | Page 3 from 6

| DIMENSION | METRIC UNITS | US / IMPERIAL UNITS |
|---------------------------------|------------------|-------------------------------|
| Tare wt. of charger (approx.): | 21.1 g | 0.74 oz |
| Gross wt. of charger (approx.): | 29.5 g | 1.04 oz |
| Filling density: | max. 0.75 kg/l | max. 0.434 oz/in ³ |
| Bursting pressure: | > 50 MPa | > 7,250 lbf/in² |
| Test pressure | 22.8 MPa at 65°C | 3,307 lbf/in² at 149°F |

| Pressure/Temperature Characteristics at a filling density of 0.75 kg/litre: | 5.2 MPa at 20°C | 754 lbf/in ² at 68°F |
|---|-------------------|------------------------------------|
| | 16.0 MPa at 50°C | 2,321 lbf/in² at 122°F |
| | 25.1 MPa at 70°C | 3,640 lbf/in ² at 158°F |
| | 38.7 MPa at 100°C | 5,613 lbf/in² at 212°F |
| | 43.3 MPa at 110°C | 6,280 lbf/in² at230°F |

3 Description of gas

Nitrous oxide, N2O (other description: laughing gas)Approved food additive:E942 according to EC directive 2008/84/ECEinecs-number:233-032-0CAS- number:10024-97-2ATC- code:N01AX13PubChem:948

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

| 1,836 kg/m³ bei 20° C | 0.115 lb/ft³ at 68°F |
|-------------------------------------|---|
| 1,53 bei 20° C | 1,53 bei 68° F |
| 36,5° C | 98° F |
| 44,013 | |
| colourless | |
| colourless | |
| transparent white acicular crystals | |
| mildly sweet | |
| mildly sweet | |
| non-flammable, oxidizing | |
| | 1,53 bei 20° C 36,5° C 44, colou colou transparent white mildly mildly |

Product information – 8,4g (11,4ml) nitrous oxide chargers N₂O



PIN.1016.e.01 | Valid from 24.08.2020 | Page 4 from 6

| Toxicity | non-toxic, in high concentrations may cause asphyxiation, recommended maximum 0.01% v/v for continuous working conditions. |
|----------|--|
|----------|--|

4 General product information

Customs tariff no.: 2811 29 30

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

5 Warning notices and application

Use cream whippers and chargers only in strict accordance to safety instructions and operating manuals. Only use iSi cream chargers in combination with iSi cream whippers.

Do not inhale. Misuse can be physically harmful and dangerous to your health.

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 the packaging until use of last charger.

Recycle empty chargers and packaging.

Non-refillable.

6 Minimum durability

The packaging of iSi cream chargers is marked with a "best before" date, according to EU 1169/2011. Although N_2O is unperishable, the "best before" date is defined with 5 years after packing. This will avoid exceeded storage time which could lead to quality and hygiene problems.

7 Storage

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

Protect from sunlight. Storage temperature limit: +50°C (122°F)

Store in a dry place. Do not heat.

8 Traceability

Each iSi cream charger is marked with an alphanumeric number in order to ensure the traceability and to increase the product safety (see also directive 2011/91/EU).

9 Transportation

9.1 Air transportation

According to IATA transport of an oxidizing agent is forbidden.

9.2 Road, train and sea transportation

Product information – 8,4g (11,4ml) nitrous oxide chargers N₂O



PIN.1016.e.01 | Valid from 24.08.2020 | Page 5 from 6

Chargers filled with a maximum of 25g of Nitrous Oxide are for road transport according to ADR special provision 584, for sea transport according to IMDG special provision 191 and internationally according to UN Model Regulation special provision 191 not classified as dangerous goods.

Product information – 8,4g (11,4ml) nitrous oxide chargers N_2O

PIN.1016.e.01 | Valid from 24.08.2020 | Page 6 from 6

10 Reach-Regulation

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

11 Manufacturing process



