

Product information – Kisag 7,5g (10ml) chargers N₂O

PIN.1011.e.01a | valid from 13.01.2026 | Page 1 of 5



Manufacturer	iSi GmbH
Address	Kuerschnergasse 4, A-1210 Vienna

Name of product	Article-no.:
N ₂ O CHK pack of 10	0040xx
N ₂ O CHK pack of 50	0045xx
N ₂ O CHK pack of 6 x 10	00406



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Table of contents

1	Description	2
1.1	Use	2
2	Technical data	2
3	Material list	3
4	Technical parameters	3
5	Nitrous oxide's description	3
6	Quality of gas	4
6.1	Technical Delivery Specifications	4
7	Minimum durability	4
8	Traceability	4
9	Warnings	4
10	Disposal and recycling	4
11	Handling and storage	4
12	Transport instructions	5
12.1	Air transportation	5
12.2	Road, train and sea transportation	5
13	Other information	5
13.1	REACH Regulation	5
13.2	Safety data sheet	5
13.3	Regulation EC No 1272/2008	5
13.4	Regulation (EC) No 1935/2004 and Regulation (EU) No 10/2011	5
13.5	U.S.-Toxic Substances Control Act / U.S.-Environmental Protection Agency (EPA-TSCA)	5

1 Description

1.1 Use

KISAG chargers are disposable steel cylinders which contain pressurized nitrous oxide. These chargers can be used to prepare whipped cream, sauces, soups, desserts and similar preparations and are suitable for domestic or commercial use. KISAG chargers are intended to be used only with the corresponding devices.

2 Technical data

Refillable	No
Surface colour	silver (painted)
Printing	batch number/year

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PIN.1011.e.01a | valid from 13.01.2026 | Page 3 of 5



3 Material list

Charger	deep drawing steel DC04
Seal and closure	body (High strength plastic), metal stem, rolled closed on to neck opening
Gas filling	N ₂ O (liquid under pressure)

4 Technical parameters

Total length	74,2 mm (±0,6mm)
Cylinder diameter	18,0 mm (±0,25mm)
Neck diameter	8,7 mm (±0,1mm)
Stem diameter	2,3 mm
Volume	~10,1 ml
Charger weight gross	~28,5g
Charger weight tare	~21,0g
Gas weight	7,0g - 7,5g
Bursting pressure cylinder	> 50 MPa
Bursting pressure stem lock	> 40 MPa
Pressure (20° C filling factor 75%)	5,2MPa

5 Nitrous oxide's description

Chemical formula	N ₂ O
Other designations	Laughing gas, dinitrogen monoxide
Permitted food additive E number	E942 (EU 231/2012)
JECFA INS code	INS 942
CAS number	10024-97-2
ATC code	N01AX13
PubChem	948

6 Quality of gas

6.1 Technical Delivery Specifications

Purity	> 99 vol% N ₂ O in the liquid phase
Humidity (H ₂ O)	≤20 ppm at 20°C and 1,013 bar (v/v)
Smell	Pure, typical and sweetish
Taste	Pure, typical and sweetish
Carbon monoxide (CO)	< 5 ppm (v/v)
Carbon dioxide (CO ₂)	< 100 ppm (v/v)
Ammonia (NH ₃)	≤ 5 ppm (v/v)
Nitrogen oxides (NO/NO ₂)	≤ 1 ppm (v/v)
Halogens (Cl)	≤ 1 ppm (v/v)

Table 1.

The gas specifications described in *Table 1* are regularly monitored and are in accordance with the requirements of JECFA, Codex Alimentarius, EU, EIGA, USP and EPh.

7 Minimum durability

KISAG cream charger boxes are marked with a minimum durability date. Despite the fact that N₂O is a non-perishable gas, this minimum durability date is limited to 2 years after the packaging date in order to avoid quality- or hygienic problems resulting from excessively long storage times (*see Regulation EU 1169/2011*).

8 Traceability

Every KISAG cream charger is printed with a batch number to ensure traceability and to increase the product's safety (*see Regulation EU 1169/2011*).

9 Warnings

- The gas may only be removed by using the corresponding cream whippers.
- Always follow the instructions for use and safety information of the corresponding cream whippers.
- Pressurized cylinder: do not heat above 50°C.
- Never open by force.
- Misuse may be physically harmful and dangerous for health-high concentrations can cause asphyxiation.
- Liquid gas, oxidizing agent
- Do not inhale.
- Do not use for any other purpose.
- Never dispose of full chargers.

10 Disposal and recycling

- The chargers are made of recyclable steel and can be disposed of in metal recycling facilities.
- The cardboard packaging can be recycled.

11 Handling and storage

- Store in a cool and dry place.
- Do not store in direct sunlight or near other heat sources.
- Keep out of reach of children.
- Dispose of the charger boxes only when empty.

12 Transport instructions

12.1 Air transportation

According to IATA a transport of oxidizing agent like N₂O is forbidden.

12.2 Road, train and sea transportation

Chargers filled with a maximum of 25 g 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.

13 Other information

13.1 REACH Regulation

Cream chargers are classified as food or food additives in accordance with EC 178/2002 and meet all the requirements specified therein. These EC 178/2002 products have been expressly exempted from the REACH Regulation (See *Regulation EC 1907/2006 (REACH): Article 2 "Application", (5)(b) and Article 2 "Application", (6)(d)*).

13.2 Safety data sheet

Cream chargers are not a dangerous substance according to the REACH regulation therefore no safety data sheet should be provided.

13.3 Regulation EC No 1272/2008

Regulation EC No 1272/2008 on classification, labeling and packaging of substances and mixtures

Cream chargers are classified as food or food additives in accordance with EC 178/2002 and meet all the requirements specified therein. These EC 178/2002 products have been expressly exempted from the Regulation EC 1272/2008 (See *Regulation EC 1272/2008: Article 1 "Application", (5)(e)(i)*).

13.4 Regulation (EC) No 1935/2004 and Regulation (EU) No 10/2011

Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food and Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

The controllable parts of the chargers correspond with the aforementioned regulations and therefore can come into contact with food.

13.5 U.S.-Toxic Substances Control Act / U.S.-Environmental Protection Agency (EPA-TSCA)

Cream chargers are classified as food or food additives and are therefore not subject to TSCA as food and food additives are expressly exempted from it (see chapter IV).