

Technical data sheet for cold trap type GKF with melted dewar coat

Area of application

For condensing water, solvents or gases in connection with a vacuum pump

- laboratory technology
- · medicinal technology
- biotechnology
- vacuum technology

Characteristics

- · reliable and easy handling
- glass material according to ISO 3585 (DURAN)
- protective casing of Dewar flask made of aluminum, type CAL
- for liquid cooling agents, e.g. LN2 (-196°C)
- for solid cooling agents CO2 (-77°C) with solvent
- pressure-free coolant sphere inside the Dewar flask
- viewing strips for observing the condensation process
- condensate drain with O-ring seal
- •insulating lid
- coolant content: approx. 1100 mlcondensate volume: approx. 250 ml



Cold trap Type GKF

Description of complete cold trap with Dewar flask

Types and accessories

- CAL = structured aluminium casing
- plastic ring = polyethylene (PE), white, two-parted
- connections for cold trap = flange KF NW, glass thread Gl18 / olive, spherical joint S29 with and without o ring seal

Temperature ranges for the Dewar flasks and the plastic ring

- glass refill from 196°C to + 80°C
- plastic ring to + 80°C

Pressure range in the cold trap

• vacuum up to 5x10 -6 mbar

Description of the glass for the cold trap and the Dewar flask

Material

• borosilicate glass 3.3 ISO 3585

Chemical characteristics

hydrolytic resistance: according to ISO 719 (98°C)
hydrolytic resistance: according to ISO 720 (121°C)
acid resistance: according to ISO 1776
alkaline resistance: according to ISO 695-A2

Physical characteristics

• linear expansion coefficient: 3,3 x 10⁻⁶ 1/K

(in between 20-300°C)

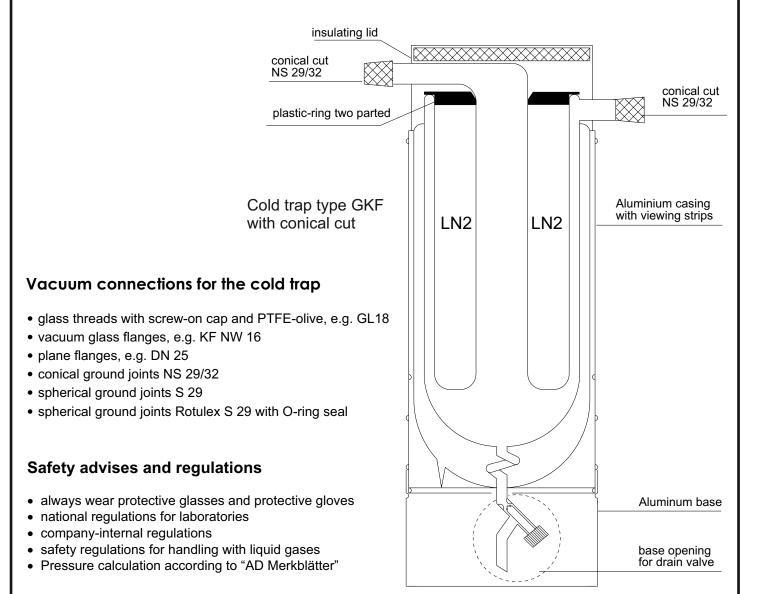
density: 2,23 g/cm³
 specific thermal capacity: 910 J/kg K
 transformation temperature: 525°C

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Article number

Туре	Connection	Article No.	Pro Duran 6mm valve
GKF	NS 29/32	1702	
GKF-GL25	glass thread with PTFE-Olive (Da13)	1702-GL25	
GKF-KF16	glass flange KF-NW16 with brackets and NBR O-ring	1702-KF16	
GKF-KF25	glass flange KF-NW25 with brackets and NBR O-ring	1702-KF25	
GKF-S29	spherical ground joint S29	1702-S29	

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Viton