



# Technical data sheet for Dewar flasks with flange type from F - 0 to F - S 22 C

## Area of application

- laboratory technique
- medicinal technique
- Biotechnology
- storing and company internal short-distance transport
- for liquid or solid medias and solid matters
- pressure-less space for coolants
- NLK appliance

## Features of performance

- reliably and economically
- Dewar flasks according to DIN EN ISO 16496
- glass material according to ISO 3585
- nominal capacity from 200ml to 8 litres
- protective casing out of blue-coated metal or aluminium



Dewar flask F 9 C

## Description of complete flasks

### Types and accessories

- C = blue-coated protective casing out of metal

### Temperature ranges

- glass refill from -200°C to + 150°C
- casing with mounting rubber and Latizell buffer from -10°C to + 60°C

### Pressure range

- pressure - less

## Description of glass 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:  $3,3 \times 10^{-6}$  1/K (in between 20-300°C)
- density: 2,23 g/cm<sup>3</sup>
- specific thermal capacity: 910 J/kg K
- transformation temperature: 525°C

### Vacuum

- $> 5 \times 10^{-6}$  mbar

### Silvering

- fully silvered

## KGW - ISOTHERM

Karlsruher Glastechnisches Werk  
76185 Karlsruhe Gablonzerstraße 6  
Tel: 0721 95897-0 Fax: 0721 95897-77  
E-Mail: info@KGW-ISOTHERM.COM  
Internet: www.KGW-ISOTHERM.COM



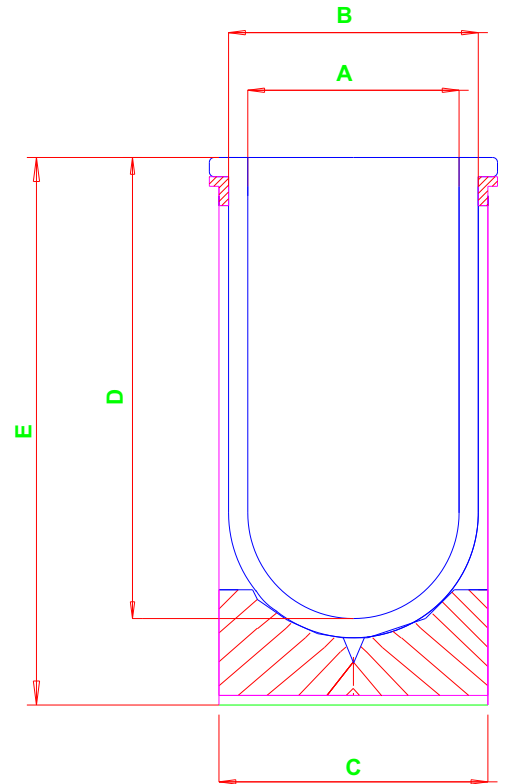
# Technical data sheet for Dewar flasks with flange type from F - 0 to F - S 22 C

## Special types

- Dewar flasks with loosely lied-on plug for gaseous medias
- Dewar flasks with PE lid and clamps
- Dewar flasks with NKL lid made of PE

## Safety advises and regulations

- always wear protective glasses and protective gloves
- national regulations for laboratories
- company- internal regulations
- safety regulations for handling with liquid gases



## Measurements and order data

### Dewar flasks with flange, technical specifications

Type	max. Content ca. [ ml ]	A mm	B mm	C mm	D mm	E mm	Weight ca. [ kg ]	Type	Article No.
F 0 C	200	40	56	60	160	215	0,3	F 0 C	1121
F 1 C	300	47	60	70	180	240	0,3	F 1 C	1122
F 3 C	500	57	70	80	200	260	0,5	F 3 C	1123
F 6 C	800	67	80	90	230	295	0,6	F 6 C	1124
F 7 C	1200	67	80	90	340	395	0,8	F 7 C	1125
F 9 C	1000	77	95	105	225	290	0,7	F 9 C	1126
F 10 C	1500	77	95	105	335	395	1,1	F 10 C	1127
F 12 C	1500	90	115	130	235	300	1,1	F 12 C	1128
F 13 C	2000	90	115	130	330	390	1,4	F 13 C	1129
F 15 C	1500	100	120	135	230	300	1,2	F 15 C	11210
F 16 C	2000	100	120	135	280	345	1,4	F 16 C	11211
F 18 C	2500	110	130	145	280	345	1,7	F 18 C	11212
F 19 C	5000	110	130	145	590	660	3,2	F 19 C	11213
F S21 C	4000	138	160	175	300	375	2,4	F S21 C	11214
F S22 C	8000	138	160	175	590	660	4,6	F S22 C	11215