

Technical data sheet for Dewar flasks cylindrical out of glass type 00 to S 22 C or CAL

Area of application

- ◆ laboratory technique
- ◆ medicinal technique
- ◆ Biotechnology
- ◆ storing and company internal short-distance transport
- ◆ for liquid or solid medias and solid matters (LN2 oder CO2)
- ◆ Pressure-less space for coolants

Features of performance

- ◆ reliably and economically
- ◆ Dewar flasks according to DIN EN ISO 16496
- ◆ glass material according to ISO 3585
- ◆ nominal capacity from 100ml to 8 litres
- ◆ protective casing out of blue-coated metal or aluminium



Dewar flask 9 C

Description of complete flasks

Types and accessories

- ◆ C = blue-coated protective casing out of metal
- ◆ CAL = protective casing out of stucco aluminium

Temperature ranges

- ◆ glass refill from -200°C to + 150°C,
for a short time 200°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/cm³
- ◆ specific thermal capacity: 910 J/kg K
- ◆ transformation temperature: 525°C

Vacuum

- ◆ $> 5 \times 10^{-6}$ mbar

Silvering

- ◆ fully silvered

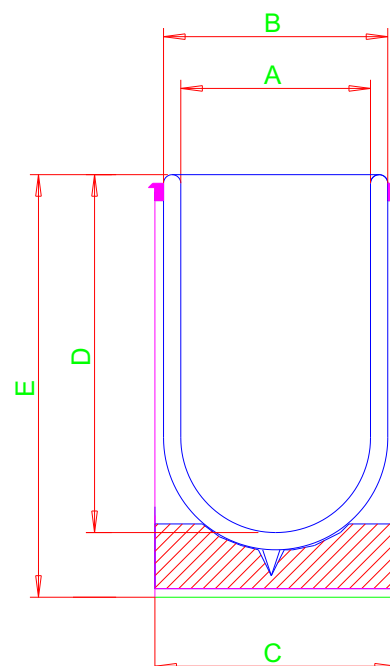
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Special types

- ◆ Dewar flasks with loosely lied-on plug for gaseous medias
- ◆ Dewar flasks with PE lid and spring clips
- ◆ Dewar flasks with opposite viewing strips in CAL-version only

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 cylindrical, technical specifications							
Type	max.Content	A	B	C	D	E	Weight
	ca. [ml]	mm	mm	mm	mm	mm	ca. [kg]
00 C	100	40	56	63	90	135	0,2
0 C	200	40	56	63	170	215	0,3
1 C	300	47	60	72	190	240	0,3
2 C	450	47	60	72	270	310	0,5
3 C	500	57	70	81	210	260	0,5
4 C	750	57	70	81	310	370	0,8
5 C	1250	57	70	81	500	550	1,3
6 C	800	67	80	90	240	295	0,6
7 C	1200	67	80	90	350	395	0,8
8 C	1700	67	80	90	500	560	1,1
9 C	1000	77	95	105	235	290	0,7
10 C	1500	77	95	105	345	395	1,1
11 C	2100	77	95	105	500	550	1,8
12 C	1500	90	115	124	245	300	1,1
13 C	2000	90	115	124	340	390	1,4
14 C	3200	90	115	124	600	665	2,5
15 C	1500	100	120	130	240	300	1,2
16 C	2000	100	120	130	290	345	1,4
17 C	4000	100	120	130	600	660	2,9
18 C	2500	110	130	140	290	345	1,7
19 C	5000	110	130	140	600	660	3,2
20 C	3000	138	160	165	230	280	1,4
S 21 C	4000	138	160	165	310	375	2,4
S 22 C	8000	138	160	165	600	660	4,6

