



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 12492
- ♦ 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: $3,3 \times 10^{-6} \text{ 1/K}$
(in between 20-300°C)
- ♦ density: $2,23 \text{ g/cm}^3$
- ♦ specific thermal capacity: 910 J/kg K
- ♦ transformation temperature: 525°C

Vacuum

- ♦ $> 5 \times 10^{-6} \text{ mbar}$

Silvering

- ♦ fully silvered



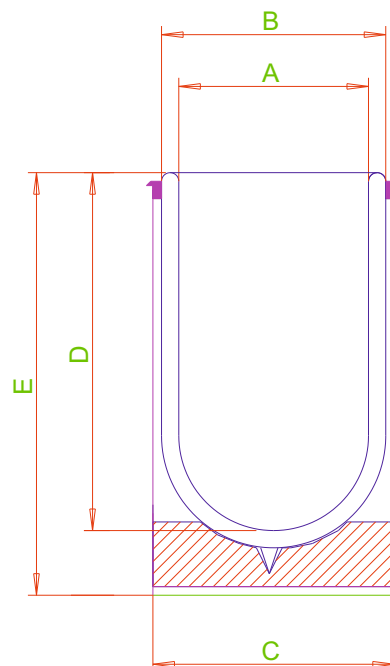
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Special types

- ◆ 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 ca. [ml]	A mm	B mm	C mm	D mm	E mm	Weight ca. [kg]	Dewar Article No.	Plug Article No.
00 C	100	40	56	63	90	135	0,2	1021	1721
0 C	200	40	56	63	170	215	0,3	1022	1722
1 C	300	47	60	72	190	240	0,3	1023	1723
2 C	450	47	60	72	270	310	0,5	1024	1724
3 C	500	57	70	81	210	260	0,5	1025	1725
4 C	750	57	70	81	310	370	0,8	1026	1726
5 C	1250	57	70	81	500	550	1,3	1027	1727
6 C	800	67	80	90	240	295	0,6	1028	1728
7 C	1200	67	80	90	350	395	0,8	1029	1729
8 C	1700	67	80	90	500	560	1,1	10210	17210
9 C	1000	77	95	105	235	290	0,7	10211	17211
10 C	1500	77	95	105	345	395	1,1	10212	17212
11 C	2100	77	95	105	500	550	1,8	10213	17213
12 C	1500	90	115	124	245	300	1,1	10214	17214
13 C	2000	90	115	124	340	390	1,4	10215	17215
14 C	3200	90	115	124	600	665	2,5	10216	17216
15 C	1500	100	120	130	240	300	1,2	10217	17217
16 C	2000	100	120	130	290	345	1,4	10218	17218
17 C	4000	100	120	130	600	660	2,9	10219	17219
18 C	2500	110	130	140	290	345	1,7	10220	17220
19 C	5000	110	130	140	600	660	3,2	10221	17221
20 C	3000	138	160	165	230	280	1,4	10222	17222
S 21 C	4000	138	160	165	310	375	2,4	10223	17223
S 22 C	8000	138	160	165	600	660	4,6	10224	17224