

# Technical data sheet for large insulating Dewar flasks Type 30/4 - 34

## Area of application

- laboratory technique
- medicinal technique
- Biotechnology
- Storing of CO<sub>2</sub> or for liquid nitrogen or solid media and solid matters
- 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 4 to 28 litres
- protective casing out of blue-coated metal "Type C"
- protective casing out of Aluminium casing "Type CAL"



Dewar flasks 30/4 to 32 C with handle



Dewar flasks 33 to 34 CAL with side grips

## Description of complete flasks

### Types and accessories

- C = blue-coated protective casing out of metal
- CAL = stucco Aluminium casing
- handle = Type 30/4 to 32
- side grips = Type 33 to 34
- lid made of Aluminium white coated or Polyethylen, with PU - insulating disc
- loose lied lid

### Temperature ranges

- glass refill from -200°C to +150°C
- Aluminium lid up to +80°C
- Polyethylen lid up to +80°C
- casing with mounting rubber 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



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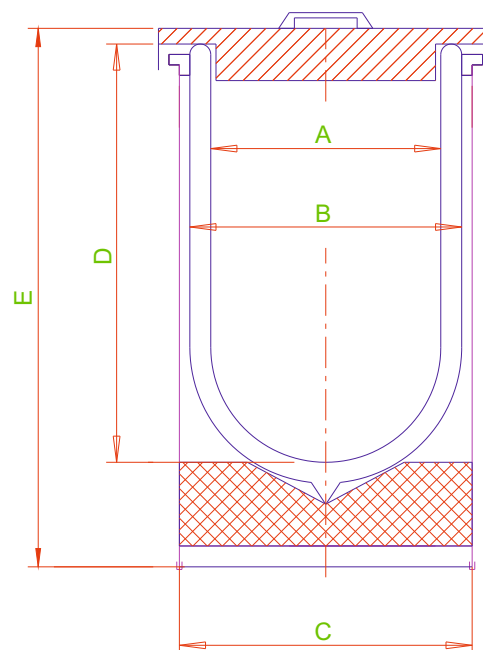
## Special types

- large insulating flasks with stainless steel casing
- large insulating flasks with special lid
- large insulating flasks with spring clips and lid
- large insulating flasks with roller base

## Safety advises and regulations

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

## Measurements and order data



### Technische Angaben / Technical Specifications / Caractéristiques techniques

Typ	max. Inhalt	A	B	C	D	E	Gewicht	Verdampfungsrate CO <sub>2</sub>
Type	max. Content						Weight	Evaporation rate CO <sub>2</sub>
Types	Capacité max.						poids	Taux d' évaporation CO <sub>2</sub>
	ca. [ L ]	mm	mm	mm	mm	mm	ca. [ kg ]	ca. [ kg / d ]
30/4 C (30/4 CAL)	4	158	183	210	250	340	5	0,45
30/7 C (30/7 CAL)	7	158	183	210	400	490	6	0,4
30 C (30 CAL)	7	200	230	250	275	385	6	0,45
31 C (31 CAL)	10	200	230	250	350	475	8	0,4
32 C (32 CAL)	14	200	230	250	500	610	9	0,4
33 C (33 CAL)	21	250	280	300	480	615	14	0,6
34 C (34 CAL)	28	250	280	300	620	750	16	0,6



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Batailler-labo.fr



Contact@batailler-labo.fr