

LABSOLUTE® THREE NECK ROUND BOTTOM FLASKS with ground joint and parallel side necks

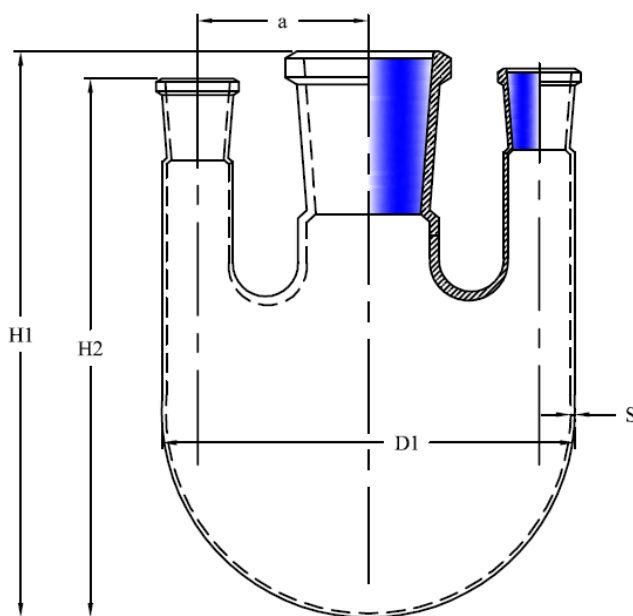
Properties:

- Made of borosilicate glass 3.3
- According to DIN 12394
- Center neck with NS 29/32
- Side necks parallel with NS 14/23 or NS 29/32
- Perfect chemical resistance
- High temperature resistance

Because of the round shape the flasks are ideal for a consistent heating of liquids. Due to the standard ground joint the flasks can be easily combined with several other glass labware like condensers etc.

Three neck round bottom flasks are mainly used in applications of chemical synthesis or distillation.

Technical drawing / picture:



Th. Geyer GmbH & Co. KG

Value table:

Item no.	V ml	NS CN	NS SN	Ø mm	H1 mm	H2 mm	a mm	S mm
7.690 160	100	29/32	14/23	64±2	105±3	95	50	1.0
7.690 161	250	29/32	14/23	85±2	140±3	120	42	1.0
7.690 170	250	29/32	29/32	85±2	140±3	120	42	1.0
7.690 162	500	29/32	14/23	105±3	163±4	135	50	1.3
7.690 171	500	29/32	29/32	105±3	163±4	135	50	1.3
7.690 163	1,000	29/32	14/23	131±3.5	200±4	160	60	1.5
7.690 172	1,000	29/32	29/32	131±3.5	200±4	160	60	1.5
7.690 164	2,000	29/32	14/23	165±4	240±5	190	65	1.8
7.690 173	2,000	29/32	29/32	165±4	240±5	190	65	1.8
7.690 174	3,000	29/32	29/32	185±4	260±7	220	80	2.0
7.690 175	5,000	29/32	29/32	223±4	305±7	275	90	2.0

Description of the abbreviations in the value table:

Item no.	Item number
V	Nominal volume of the flask
NS CN	Nominal neck size of the center neck
NS SN	Nominal neck size of the side necks
Ø	Maximum diameter of the flask
H1	Total height of the flask
H2	Height of the flask from bottom to side necks
a	Distance between center neck and side necks
S	Minimum thickness of the glass

Physical properties of borosilicate glass 3.3 acc. to ISO 3585:

Property	Value
Linear coefficient of thermal expansion α (20°C;300°C) acc. to ISO 7991	$3.3 \cdot 10^{-6} \text{ K}^{-1}$
Transformation temperature T_g	525 °C
Permitted max. working temperature	500 °C
Density ρ (20 °C)	2.23 g/cm ³
Coefficient of thermal conductivity λ (20 to 100 °C)	1.2 Wm ⁻¹ K ⁻¹
Hardness (according to Mohs)	6°
Refractive index n_D ($\lambda = 587.6 \text{ nm}$)	1.473

Revision 1.0, Stand: 17.07.2017

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