

LABSOLUTE® THREE NECK ROUND BOTTOM FLASKS with ground joint and angled side necks (20°)

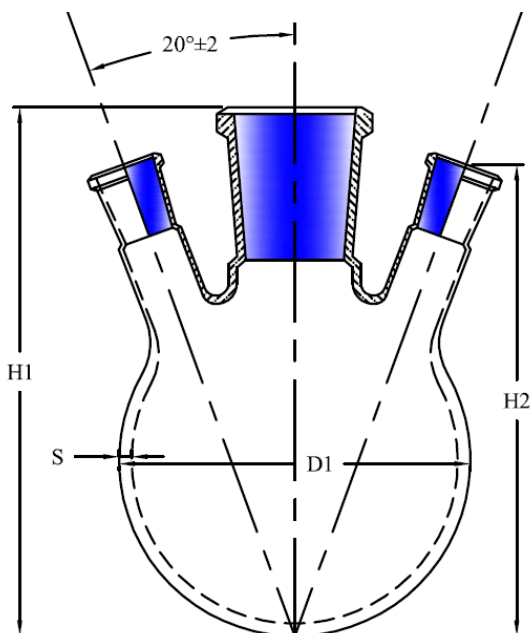
Properties:

- Made of borosilicate glass 3.3
- According to DIN 12394
- Center neck with NS 29/32
- Side necks angled (20°) with NS 14/23 or NS 29/32
- Perfect chemical resistance
- High chemical 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	S mm
7.690 140	50	29/32	14/23	51±1	90±2	85	0.8
7.690 141	100	29/32	14/23	64±1.5	105±3	95	1.0
7.690 150	250	29/32	29/32	85±2	140±3	120	1.0
7.690 142	250	29/32	14/23	85±2	140±3	120	1.0
7.690 151	500	29/32	29/32	105±2	163±4	135	1.3
7.690 143	500	29/32	14/23	105±2	163±4	135	1.3
7.690 144	1,000	29/32	14/23	131±3	200±4	160	1.5
7.690 152	1,000	29/32	29/32	131±3	200±4	160	1.5
7.690 145	2,000	29/32	14/23	166±3	240±5	190	1.8
7.690 153	2,000	29/32	29/32	166±3	240±5	190	1.8

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 neck
S	Minimum thickness of the glass

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

Eigenschaft	Wert
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

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Th. Geyer GmbH & Co. KG