

DURAN® Wide Neck Bottle GLS 80®, Double Wall, DURAN Group / IDL



Wide neck bottle, double wall

The double-walled DURAN® wide neck bottle GLS 80® is thermally insulated by its integrated glass cladding. To regulate the temperature in this DURAN® screw cap bottle, hot or cold liquids can be circulated through the cladding. The double-walled DURAN® bottles are a lockable, flexible alternative to cap-less beakers with cladding.

Applications:

- Suitable for use as simple, low-cost chemostat or bioreactor with double cladding for cell cultures;
- Reaction vessel for temperature-controlled reactions such as enzyme digestion;
- Simple stirring reactor system with continuous flow and optional GLS 80® cap component;
- Thermostatic vessel for storing liquids, or highly viscous liquids at a constant temperature – practical for working with endo- or exothermal reagents;
- Can be used as large cold trap or cooler with dry ice in the interior container.

Features:

- Fit for use in a wide temperature range of -40 to +120°C. By means of the white GLS 80® polyethersulfone screw cap (order separately), the application range can be extended to -45 to +180 °C. Laboratory glasses made of DURAN® glass can be used in a temperature range of -196 to +300°C; however, the limit values for heating or cooling must be observed.
- Made of DURAN® borosilicate glass 3.3, a material with proven excellent thermal properties and a high resistance to chemical loads.
- All components are fully autoclavable.
- Available in two practical sizes: 500 and 1000 ml.
- The inner diameter of 65 mm of the thread of the GLS 80® wide neck bottle allows for simple and convenient filling and emptying as well as cleaning.
- Thanks to its flat bottom, the bottle is suitable for use with magnetic stir bar or the DURAN® GLS 80® magnet-stirring cap system.
- Compatible with all GLS 80® wide neck connection systems for adding or removing of liquids during processing.
- Easy-to-read scale on the interior vessel
- For greater safety, the GL 18 outlet hose connections can be removed.
- To ensure even heating or cooling, the position of the 10 mm PTFE inlet / outlet hose connections was optimised for constant flow around the cladding.



Article	Vol. ml	Total H. mm	Order No.
Double wall DURAN® wide neck bottle GLS 80®	500	180	10 21 14451
Double wall DURAN® wide neck bottle GLS 80®	1000	270	10 21 15456

Accessories

Article	Order No.
Screw cap GLS 80 with sealing disc	10 21 16588
White polyethersulfone cap with PTFE-clad cap insert, 5 pcs./pack	
Membrane screw cap GLS 80	10 21 10168
Ventilated cap (blue) for DURAN® GLS 80® made from polypropylene	
DURAN® stirred reactor cap	10 21 10279
incl. anchor-shaped magnetic stirrer and 4 connectors (2xGL 18 and 2xGL 1)	
DURAN® wide-neck bottle cap for mixing and connecting, GLS 80®	10 21 19204
incl. DURAN® KPG agitator shaft WS 10 (L = 410 mm) and 4 connectors (2x GL 18 and 2x GL 14 screw caps)	

