PART OF THE **DURAN®** BOTTLE SYSTEM

DWK LIFE SCIENCES
DURAN WHEATON KIMBLE

PROTECTIVE

NEW:
DURAN® protect+
SAFETY COATED BOTTLES

WHEN SAFETY MATTERS

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DURAN® protect+ SAFETY COATED BOTTLES

WHEN SAFETY MATTERS

DURAN® GL ISO bottles have become the gold standard of multi-functional laboratory bottles since their introduction in 1972. **The protect+ safety-coated version of the bottles combines the best of both worlds:** virtually inert USP/EP Type I borosilicate glass 3.3 on the inside and a protective safety plastic layer on the outside. The bottles are moulded from high-purity, clear glass or externally ambered clear glass that is then coated with a translucent polyamide PA 12 coating to reduce the hazards of broken glass and liquid splashes in the event of breakage.

A combination of high-performance materials and robust design provides a cost-effective usable life. The bottles feature an easy-to-read graduated volume scale in durable enamel. There is a Retrace Code printed on each bottle for manufacturing lot traceability. The ambered DURAN® glass bottle versions ensure that light sensitive contents are protected from the effects of photodegradation. The protection against ultra-violet light meets international USP/EP standards. All the protect+ coated bottles are supplied with push-on protective covers to protect the inside of the bottles from contamination during distribution. Matching screw closures and pouring rings can be ordered separately.

High quality material

- Manufactured from **DURAN® borosilicate glass 3.3**
- **DURAN®** is a neutral glass **classified as a Glass Type I** according to USP <660>, EP (3.2.1) and JP <7.01>, and **meets ASTM E438, Type I, Class A requirements**
- **Polyamide coating** on outside bottle surface

Broad size range

- Available in a wide range of nominal bottle capacities from **25 mL to 5 litres,** and **neck sizes GL 25 to GLS 80® wide neck**
- Also available as **pressure resistant glass bottles**

NEW **DURAN® protect+ polyamide coating**

ENHANCED SAFETY
- **DURAN® protect+ coating reduces risks for users, contents, and staff**

ENVIRONMENTAL RESPONSIBILITY
- **Proactively shifting to a new coating signifies sustainability commitment**

HEALTH AND SAFETY FOCUSED
- **New coating aligns with impending EU standards**

High-grade PP protective cover

- **Push-on protective cover** prevents contamination during storage and transport

APPLICATION AREAS

- Preparation of media and reagents
- Safe storage and shipping of bulk, high-potency active pharmaceutical ingredients (HPAPIs)
- Sample or harvest collection container
- Culturing vessel
- Storage of media and reagents
- Transport and shipping
- Liquid handling reservoir
- Ambered glass allows the safe preparation and storage of light-sensitive materials

Amber coloring technology

- **Amber coating on outside bottle surface** offers **UV protection** USP <660> (Spectral Transmission) and EP (3.2.1) compliant
- **Less than 10% spectral transmission** between 290 nm and 450 nm

Protective coating

- **Reduces the hazards of broken glass and liquid splashes in the event of breakage**
- The external polyamide polymer-coating provides scratch, leak* and splinter* protection
- The Polyamide 12 safety coating has a **high chemical resistance**
- Coating is **Cleanroom certified Fraunhofer IPA TESTED DEVICE®**
- **Certified FDA and EU food contact safe coating material**
- Protective coating provides an enhanced safer grip

* only applies to bottles 2000 mL and less

ELEVATE SAFETY AND SUSTAINABILITY WITH **DURAN® protect+** COATING

A COMMITMENT TO ESG PRACTICES

At DWK Life Sciences, we are dedicated to reshaping the future of business through the lens of Environmental, Social, and Governance (ESG) principles. As a testament to this commitment, we are proud to introduce the innovative DURAN® protect+ coating, a game-changer in the realm of safety for users, hazardous contents, manufacturing staff, and the environment.

Improved safety for all stakeholders

Ensuring the health and safety of our employees is paramount at DWK Life Sciences. We recognize that the well-being of our workforce extends beyond the workplace, encompassing operational safety, labor conditions, and health protection. The implementation and continual enhancement of rigorous safety standards are integral to our ethos.

Sustainable development in action

In alignment with our sustainable development objectives, DWK Life Sciences is making a significant advance in material innovation. We are transitioning from the traditional polyurethane coating to a new polyamide (nylon 12) coating for our DURAN® protect bottles. This transformation not only aligns with our commitment to environmental responsibility but also signifies our dedication to pushing the boundaries of safety and performance.

Advantages of polyamide coating

The introduction of the polyamide coating heralds a new era for DURAN® protect bottles, bringing forth several advantages. Beyond delivering performance excellence comparable to the current coating, the polyamide material boasts a distinctive advantage—the reduction of volatile organic compounds (VOC) and solvent content. This revolutionary coating process eliminates the use of isocyanates, aligning seamlessly with ever-increasing EU restrictions. The industrial use of isocyanates is subject to evolving regulatory landscapes, with directives such as 98/24/EC and 2004/37/EC shaping the industry. In response to the dynamic regulatory environment, DWK Life Sciences is proactively adhering to the updated 2020 REACH regulations, specifically Commission Regulation (EU) 2020/1149 amending Annex XVII. By embracing these regulatory changes, we not only stay compliant but also lead the way in responsible business practices.

The adoption of the DURAN® protect+ coating is a testament to our commitment to corporate responsibility. DWK Life Sciences will continue to pioneer innovations that transcend conventional norms, setting a new benchmark for the laboratory industry. At DWK Life Sciences, we believe that excellence is not just a goal but a journey.

Ordering information

Description	Capacity (mL)	Thread	Pack Unit	Clear Cat. No.	Amber Cat. No.
DURAN® protect+ safety coated bottles GL 25 to GL 45, clear or amber with push-on protective cover	25	GL 25	10	17906772	17976782
	50	GL 32	10	17926772	17946772
	100	GL 45	10	17956772	17996782
	250	GL 45	10	17986782	17906792
	500	GL 45	10	17916792	17936792
	1000	GL 45	10	17946792	17956792
	2000	GL 45	6	17926792	17966792
	3500	GL 45	1	17986792	-
	5000	GL 45	1	17996792	17976792

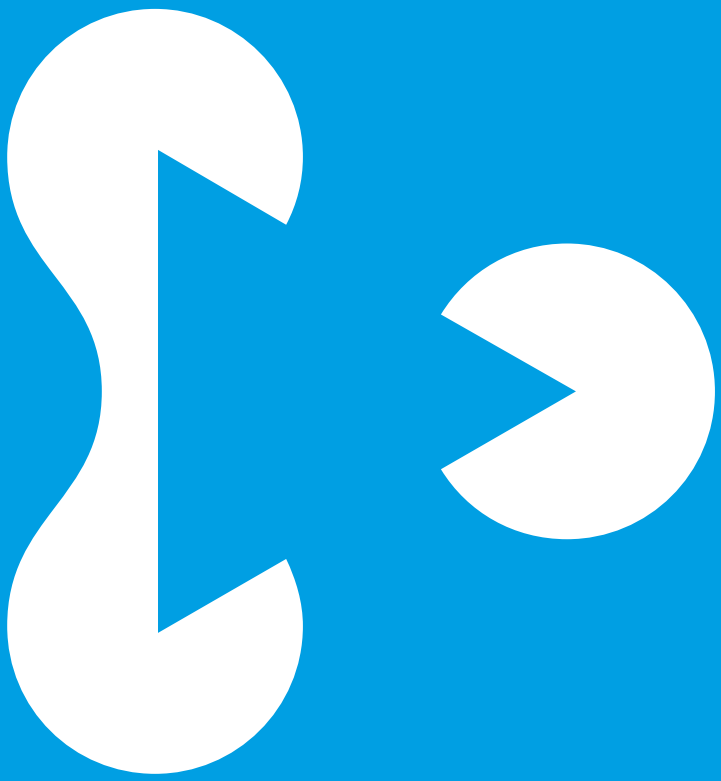
Description	Capacity (mL)	Thread	Pack Unit	Clear Cat. No.	Amber Cat. No.
DURAN® GLS 80® Wide-Neck protect+ safety coated bottles, clear or amber with push-on protective cover	250	GLS 80®	10	17966752	17976752
	500	GLS 80®	10	17996752	17986752
	1000	GLS 80®	10	17926762	17916762
	2000	GLS 80®	6	17906762	17946762
	3500	GLS 80®	1	17936772	17936762
	5000	GLS 80®	1	17966762	17956762

Description	Capacity (mL)	Thread	Pack Unit	Clear Cat. No.
DURAN® pressure plus+ protect+ safety coated bottles, clear only with push-on protective cover	100	GL 45	10	17976762
	250	GL 45	10	17986762
	500	GL 45	10	17996762
	1000	GL 45	10	17916772

DURAN® screw caps and pouring ring accessories

Description	Pack Unit	Cat. No.
DURAN® Original GL 25 Bottle Screw Cap, with lip seal, PP, blue	10	11722322
DURAN® Original GL 32 Bottle Screw Cap, with lip seal, PP, blue	10	11732322
DURAN® Original GL 32 Bottle Pouring Ring, PP, blue	10	10110221
DURAN® Original GL 45 Bottle Screw Cap, with lip seal, PP, blue	10	10602981
DURAN® Original GL 45 Bottle Pouring Ring, PP, blue	10	10602981
DURAN® GL 45 Screw Cap Red PBT with PTFE-silicone cap liner	10	10222161
DURAN® GL 45 Pouring ring, ETFE, red	10	11732342

These products are available from your specialist laboratory dealer.



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