

PART OF THE DURAN® BOTTLE SYSTEM

# PROTECTIVE

**NEW:**

**DURAN® protect+**  
SAFETY COATED  
BOTTLES

WHEN SAFETY MATTERS



8221 East FM 917 • Alvarado, TX 76009 • Phone: (800)369-5524 • Fax: (817)783-3571  
[www.foxscientific.com](http://www.foxscientific.com) • [sales@foxscientific.com](mailto:sales@foxscientific.com)



**DWK LIFE SCIENCES**  
DURAN WHEATON KIMBLE

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.



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## Ordering information

Description	Capacity (mL)	Thread	Pack Unit	Clear Cat. No.	Amber Cat. No.
<b>DURAN® protect+</b> safety coated bottles GL 25 to GL 45, clear or amber with push-on protective cover	25	GL 25	10	21 805 14 81	21 806 14 82
	50	GL 32	10	21 805 17 81	21 806 17 82
	100	GL 45	10	21 805 24 86	21 806 24 87
	250	GL 45	10	21 805 36 88	21 806 36 89
	500	GL 45	10	21 805 44 87	21 806 44 88
	1000	GL 45	10	21 805 54 83	21 806 54 84
	2000	GL 45	6	21 805 63 85	21 806 63 86
	3500	GL 45	1	21 805 69 85	–
5000	GL 45	1	21 805 73 81	21 806 73 82	

Description	Capacity (mL)	Thread	Pack Unit	Clear Cat. No.	Amber Cat. No.
<b>DURAN® GLS 80® Wide-Neck protect+</b> safety coated bottles, clear or amber with push-on protective cover	250	GLS 80®	10	21 865 36 85	21 866 36 86
	500	GLS 80®	10	21 865 44 84	21 866 44 85
	1000	GLS 80®	10	21 865 54 89	21 866 54 81
	2000	GLS 80®	6	21 865 63 82	21 866 63 83
	3500	GLS 80®	1	21 865 69 82	21 866 69 83
	5000	GLS 80®	1	21 865 73 87	21 866 73 88

Description	Capacity (mL)	Thread	Pack Unit	Clear Cat. No.
<b>DURAN® pressure plus+ protect+</b> safety coated bottles, clear only with push-on protective cover	100	GL 45	10	21 815 24 84
	250	GL 45	10	21 815 36 86
	500	GL 45	10	21 815 44 85
	1000	GL 45	10	21 815 54 81

## DURAN® screw caps and pouring ring accessories

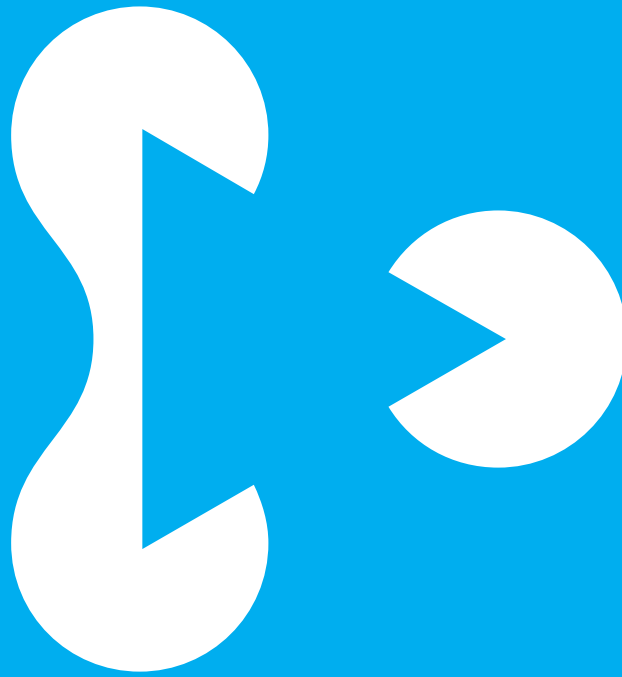
Description	Pack Unit	Cat. No.
<b>DURAN®</b> Original GL 25 Bottle Screw Cap, with lip seal, PP, blue	10	29 239 13 07
<b>DURAN®</b> Original GL 32 Bottle Screw Cap, with lip seal, PP, blue	10	29 239 19 07
<b>DURAN®</b> Original GL 32 Bottle Pouring Ring, PP, blue	10	29 242 19 07
<b>DURAN®</b> Original GL 45 Bottle Screw Cap, with lip seal, PP, blue	10	29 239 28 09
<b>DURAN®</b> Original GL 45 Bottle Pouring Ring, PP, blue	10	29 242 28 09
<b>DURAN®</b> GL 45 Screw Cap Red PBT with PTFE-silicone cap liner	10	29 240 28 07
<b>DURAN®</b> GL 45 Pouring ring, ETFE, red	10	29 244 28 02

These products are available from your specialist laboratory dealer.



EXPLORE THE DURAN®  
BOTTLE SYSTEM

www.duran-bottle-system.com



Excellence in your hands



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