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DURAN PURE

Pharmaceutical primary packaging with comprehensive qualification support



For further details please visit us at: www.duran-group.com

DURAN PURE – A NEW PRODUCT RANGE FOR PHARMA PRODUCTION

DURAN[®] borosilicate glass 3.3 is a type I neutral glass with many desirable characteristics and is the proven solution for primary packaging used in the production and transport of pharmaceutical products. Originally developed over 120 years ago by Otto Schott, DURAN[®] glass has superior temperature and chemical properties compared to many other packaging materials. DURAN[®] borosilicate glass 3.3 is gas-tight, virtually inert, chemically stable, non-porous and has excellent resistance to aqueous solutions. Due to its boron-silica matrix, the glass is resistant to the temperature extremes seen in manufacturing processes, such as during heat sterilization or depyrogenation. These special properties of DURAN[®] glass and its long history have shown it to be a safe and stable primary packaging material.

The DURAN Group combines the technical know-how of more than 650 employees at three production facilities in Germany and Croatia, with over a century of experience manufacturing laboratory glassware from DURAN® borosilicate glass 3.3. The DURAN Group is dedicated to high product quality, and operates a quality management system that conforms to ISO 9001:2008. Alongside standard and customer specific laboratory glassware, the DURAN Group has been a long-standing supplier to pharmaceutical research and production facilities worldwide. As a result, we are familiar with the exacting requirements demanded by national and international regulatory authorities, and are a competent project partner for primary packaging.

DURAN PURE is a new range of primary packaging products dedicated to the specific requirements and needs of the pharmaceutical industry. The bottles and closures in the range fully meet the requirements laid down in the international pharmacopoeias, and offer full protection for sensitive and valuable pharmaceutical products. DURAN PURE products are available with a full range of documents and certification that meet the detailed requirements of the regulatory authorities.

DURAN PURE product range

- DURAN PURE Type I Glass Bottle with protective dust cover and dedicated DURAN PURE Premium Screw Caps are available as standard items from stock
- A comprehensive qualification package providing product information and supplier qualification, is available for download from www.duran-group.com
- All stock items comply with the current pharmacopoeia requirements and are registered as Type III: Packaging Material Drug Master Files (DMF)
- Package includes support services: completion of supplier questionnaires, management of change control and audits of manufacturing facilities
- Customer specific DURAN PURE
 products are available on request



Premium Screw Cap pre-packed and ready-to-sterilize

The Premium Screw Caps are packed in see-through STERICLIN®¹ pouches under ISO Class 7 cleanroom conditions. The STERICLIN® pouches conform to ISO 11607, and have indicators for steam, ethylene oxide and formaldehyde sterilization.

BENEFITS

- Cleaning of the caps is not required
- Can be sterilized directly in the STERICLIN® pouches
- Sterile storage for up to 6 months
- Pouch contains caps from a single manufacturing lot

DURAN PURE PRODUCT RANGE

DURAN PURE Clear Glass Bottle Range available from ${\rm stock}^2$

Article number	Volume ml	DIN Thread size	Bottles per pack	Bottles per pallet (from same lot)
81 801 14 01	25	GL 25	10	I 560
81 801 24 06	100	GL 45	10	660
81 801 36 08	250	GL 45	10	420
81 801 44 07	500	GL 45	10	360
81 801 54 03	1 000	GL 45	10	210
81 801 63 05	2 000	GL 45	10	120
81 801 73 01	5 000	GL 45	I	48
81 801 86 06	10 000	GL 45	I	30
8 80 9 05	20 000	GL 45	I	12

DURAN PURE Premium Screw Caps made from fluoropolymer (PFA – TpCh260TZ)²

Article number	DIN Thread size	Description	Caps per pack
89 108 13 06	GL 25	DURAN PURE Premium Screw Cap	5
89 108 86 79	GL 45	DURAN PURE Premium Screw Cap	5
89 299 13 04	GL 25	DURAN PURE Premium Screw Cap STERICLIN®	20
89 299 28 06	GL 45	DURAN PURE Premium Screw Cap STERICLIN®	20

^I STERICLIN[®] is a registered trademark of the VP Group

² In addition, we are happy to advise and assist you on specific DURAN[®] glass primary packaging containers and closures to meet your requirements. Please contact us via email at: pharma@duran-group.com

BENEFITS OF CHOOSING DURAN PURE FOR PRIMARY PACKAGING

The DURAN PURE product line offers many advantages for pharmaceutical manufacturing compared to the standard DURAN® media bottles

	Standard DURAN® Media Bottle	DURAN PURE Bottle
Glass	DURAN® borosilicate 3.3 neutral Glass Type I	DURAN® borosilicate 3.3 neutral Glass Type I
Particle contamination prevention measures	None. Cap and pouring ring (if supplied) are added to the bottle after storage in an uncontrolled area	Protective dust cover is applied in-line at the end of the manufacturing process while the glass still has a very high level of cleanness
Quality Control	Final inspection by acceptable quality limit (AQL) in accordance with ISO 2859-1:1999	 Final inspection by acceptable quality limit (AQL) in accordance with ISO 2859-1:1999 Additional 100% visual control check and control step Greater in-process control
Certificate of conformance	Lot specific certificate of conformance is available via "Retrace Code" internet download	Lot specific certificate of conformance is available via "Retrace Code" internet download (Includes USP, Ph. Eur., JP analysis per lot)
Full Qualification documentation for each item and each lot is available via an internet download	No	Yes
Lot traceability	Standard DURAN caps are not lot managed and polymer material is not pharmacopoeia compliant	100% lot traceability of DURAN PURE Bottles and cap components
Supply of bottles and caps from a single manufacturing lot	No	Yes
Drug Master Files (DMF) registration	None	Registered as Type III: Packaging Material Drug Master Files (DMF)
Completion of supplier questionnaires	No	Yes
Customer audits of manufacturing facilities	No	Yes
Change control agreements	No	Yes
Volume graduations	Standard accuracy	Improved accuracy

DURAN PURE QUALIFICATION PACKAGE

Documents available via internet



Supporting services





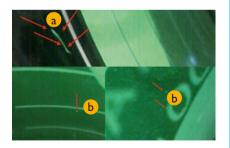
COMPARISON OF PARTICLE CONTAMINATION LEVELS IN STANDARD DURAN[®] MEDIA BOTTLE WITH THE DURAN PURE BOTTLE AND DUST COVER

An independent testing laboratory (SGS Institut Fresenius, Germany) analyzed the inner surfaces of standard DURAN[®] media bottles and DURAN PURE Bottles for the presence of particle and fiber contaminants.

DURAN PURE Bottle test results

The results showed that in the DURAN PURE Bottles no fiber or particles (visible and sub-visible) could be detected.

Standard DURAN[®] Media Bottle



• Fibers (a) and particles (b) were detected.

DURAN PURE Bottle



- No fibers or (visible or sub-visible) particles were detected.
- Surface has a very high level of cleanness but not "ready-to-use" as the bottles are not manufactured under controlled environmental conditions.

PRODUCT LINE FEATURES

	DUDANDEDE Deservives Constructions de forme du serve
DURAN PURE Glass Bottle	DURAN PURE Premium Screw Cap made from fluoropolymer (PFA – TpCh260TZ)
Conforms to a borosilicate 3.3 glass as defined by: • ISO 3585:1998	Conforms to USP Class VI • USP <87>, <88> • ISO 10993-5:2009
Conforms to glass screw-neck bottle standards: • ISO 4796-1:2000 • DIN 168-1:1998-04	PTFE coating of Premium Cap liner conforms to:FDA 21 CFR 177.1550 – Perfluorocarbon resins
Conforms to a Type 1 neutral glass as defined by: • USP <660> • Ph.Eur. 3.2.1 • JP 7.01 Method 1 • ASTM E438-92(2011)	Silicone Cap liner is platinum-catalyzed and conforms to: • FDA 21 CFR 177.2600 Rubber articles intended for repeated use
Type III: Packaging Material Drug Master File (DMF)	Type III: Packaging Material Drug Master File (DMF)
Documented lot management and traceability using the "Retrace Code"	Documented lot management and traceability using the "Retrace Code"
Full qualification documentation	Full qualification documentation
Suitable for most sterilization methods such as steam, ethylene oxide, chemical, and dry heat sterilization	Suitable for most sterilization methods such as steam, ethylene oxide, chemical and dry heat sterilization
Glass is a Type I, neutral glass and practically inert	All polymers are colorant and pigment free
Wide usage temperature range from –70°C to +500°C High thermal shock resistance up to a differential of 100 K	Wide usage temperature range from -196°C to +260°C
Glass transparency permits visual checks on content status and fill volume	Material contact surfaces made from PTFE
Protective dust cover to minimize particle contamination	Available in a cleanroom packed, ''ready-to-sterilize'' STERICLIN® pouch

DURAN PURE - MORE THAN JUST A CONTAINER

	Standard DURAN® Media Bottle and Screw Cap	DURAN PURE Bottle/Premium Screw Cap	Standard DURAN® Media Bottle	
Certificate of conformity DURAN®	\checkmark	1	Peters - Index Editions - Lineary parents - Series - Series - Series - Seri	
Certificate of conformity USP Class VI	×	✓	Control years offer Great A summer to interestry gene training the sum of age and interestry the	
Product specification	×	✓	Voulnerg passes Great G	
Technical drawing	×	1	Mandarana Barankan - Read And And And And And And And And And An	
Material Safety Data Sheet (MSDS)	 Image: A second s	✓	Ander Samp A	
REACH compliance certificate	1	✓	Lidgeren - New - Persperg posses & inverse	
Certificate of food contact safety	 Image: A second s	✓		
BSE/TSE/GMO certification	√	1		
Certificate of heavy metal content	×	✓		
Lot certificate*	1	1	All and a second	
Certificate of Analysis (CoA)	×	1	A man and a second seco	
Qualification documentation	×	1		
Auditing capability	×	1	The lot specific certificates of conformi for the standard DURAN® media bottl	
Supplier questionnaire	×	1	are available at: www.duran-group.cor Products & Solutions/Laboratory Glasswa	
Drug Master File (DMF),Type III	×	1	Lot Certificate	

Home + Poulice & Bollona + Phanta + DURIN PURE + Qualitation package PDF Download DURAN PURE Bottle, DL 45 with Duel Cover, 1.500 ml St. Duality and Decomposition (2.654) (2.65) -----B Ban Certhan POT LUI MR a techant -() Dames 70718-81 MB (2) Dentry Treat POPIEIRME -(2) Mercural Salary, Carlo Street Class 2 Datament on BML TSC -R Baserard in Navy Mult -20 Deserved in Densials, Republics and Electricity 70718-81MB () HEADY -----(i) nes POF 18.17 MB B transfer Cover -----(1) Southand Dur Cover -----(2) Manufal Tables Data News Data Down POP LA DA ME (1) Date: ent on BME THE Bust Cover -P071828140 23 100 -(A) Exemperian Paper Marian Carl Cove () Same POF 1628-MD

DURAN PURE

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The qualification documentations for DURAN PURE articles are available at: www.durangroup.com/Products & Solutions/Pharma

* If applicable

DURAN PURE PRODUCT RANGE – SUMMARY OF FEATURES AND BENEFITS

DURAN PURE	Benefits
100% visual control of the DURAN PURE Bottles and Premium Screw Caps	All the supplied packaging material meets the specified quality standard, reducing the risk of rejection.
Protective dust cover	DURAN [®] glass is melted at over 1500°C producing a smooth, non-porous fire-polished surface that is free of particle contaminants. The protective dust cover is applied immediately after cooling, and prevents contamination of the inside of the bottle during shipping, making it easier to clean before use.
Premium Screw Cap pre-packed in STERICLIN® pouches	Easy to use as supplied ready-to-sterilize. Permits storage of sterilized caps up to 6 months.
Comprehensive documentation package • Certificate of Analysis (CoA) • Type III Drug Master File (DMF) • Qualification documentation	DURAN PURE meets 100% of the official requirements for documented proof of suitability and traceability of primary packaging material.
Supply from a single production lot	Simplifies traceability.
100% traceability of componentsBottleScrew capCap sealing liner	DURAN PURE meets the documentation and production requirements of national and international pharmacopeias for primary packaging materials.
Change control management	By mutual agreement, any planned product related changes will be communicated for authorization and approval.
Manufacturing site audits	Included as part of DURAN PURE supporting services but by prior arrangement.
Customized primary packaging	DURAN PURE Bottles and Caps can be adapted to your requirements.