







DURAN® VOLUMETRIC FLASKS

Achieving precision through quality

Volume measurement – a routine laboratory procedure. All the more important is the assurance of quality in the associated instrumentation over the long term, from volumetric flasks to stoppers. From one day to the next, with each analysis. DURAN® volumetric instruments have the same attributes as DURAN® laboratory glassware: They are robust, virtually inert and exceptionally resistant to high temperatures. Outstanding corrosion protection also guarantees they are particularly cost effective.

End-to-end production from a single source

Stringent specifications apply for the selection of raw materials and mixture preparation for the borosilicate glass 3.3. In addition, because DURAN® laboratory glassware is manufactured exclusively in-house, high quality is guaranteed. This applies to every manufacturing phase – from glass melting through to calibration. The result: outstanding precision during volumetric measurement.

SCREEN PRINT LABEL FOR **DURAN®** VOLUMETRIC FLASKS

Volumetric flask, accuracy class A, USP <31> conform



Volumetric flask, accuracy class A, with individual certificate



Volumetric flask, accuracy class A, with batch certificate



USP	United States Pharmacopoeia – the product satisfies the requirements specified in USP <31>		
CERT	Certificated		
88.88	Batch number, e.g. 15.01		
100	Nominal volume in mL		
±0.08ml	Accuracy tolerance – the deviation of the nominal volume must be no greater than this value which is specified in standards		
In 20°C	Reference temperature – the temperature at which a volumetric instrument must achieve the nominal volume (20°C) stated on it		
Made in UK	Country of origin		
Α	Accuracy class – denotes the accuracy limit		
NS 14/23	Standard taper joint size		
ISO 1042) 1042 Standard designation		
DE-M yy	Conformity mark – verifies compliance with the requirements of the German weights and measures regulation and applicable standards		
AAA-0001	Individual number (laser-etched onto the base)		
DD.MM.YY	Production date (laser-etched onto the base)		



FEATURES & BENEFITS:

- Achieves precision due to better visibility of the printed graduation mark
- Print is highly resistant to chemicals
- Comply with the requirements of ISO 1042
- With **new PE stopper** can be ordered separately
- Well-known DURAN® borosilicate glass 3.3 quality due to high internal raw material requirements
- Increased service life and cost-effectiveness
- Retraceable
- Auditable

OVERVIEW OF **CERTIFICATES**

Conformity mark DE-M

Volumetric instruments that comply with the requirements of applicable standards (e.g. the German weights and measures regulation) are labelled accordingly with "DE-M". The "DE-M 18" mark is made up of the elements DE (which stands for "Deutschland"), M (which stands for "Metrologie" (metrology)), and the year number 18 (2018, the year in which the measuring instrument was labelled).



Batch certificate

Volumetric flasks and measuring and mixing cylinders with a batch number and accuracy class A are supplied with a batch certificate. This certificate documents the mean value obtained from measuring the batch in question, the standard deviation and the day of issue. The batch certificates can also be retrieved online. The batch number consists of four digits, e.g.: The first two numbers specify the production year, and the following two numbers specify the batch.

Individual certificate

Volumetric flasks which are numbered individually, are supplied with an individual certificate. The individual number is permanently laser-etched onto the base of the volumetric flask and is entered on the corresponding certificate. The volume measured for the corresponding volumetric flask, the measurement uncertainty and the day of issue are documented on this certificate. The individual number is a consecutive number and comprises three letters and a four digit number, for example: AAA-0001.

USP individual certificate

The volumetric flasks are labelled with an individual number. This is permanently laser-etched onto the base of the volumetric flask and is entered on the corresponding certificate. The accuracy limits for USP <31> compliant volumetric flasks are stricter than flasks conforming to ISO 1042 and therefore satisfy the requirements of the United States Pharmacopoeia (USP). The volume measured for the corresponding volumetric flask, the measurement uncertainty and the day of issue are documented on this certificate.







UKAS certificate

Our DURAN® volumetric gauges already meet the highest standards of accuracy, yet DURAN® now also provides a new range of volumetric gauges and graduated cylinders with a UKAS single certificate. This new volumetric instrument product line is tested and calibrated to the requirements of United Kingdom Accreditation Services (UKAS) and complies with ISO 17025, a standard for global comparability of test and calibration results.



DURAN® RANGE OF VOLUMETRIC FLASKS

Product range		DURAN® volumet	DURAN® volumetric flasks, clear			
Accuracy class		Class A	Class A	Class A	Class A	
Borosilicate glass 3.3 volumetric flasks body						
Certificate*		Batch certificate	Individual certificate	Individual certificate, USP <31> conformity	UKAS certificate	
Certificate of conformity Maximum recommended temperature without affecting accuracy		yes	yes	yes	yes	
		180°C	180°C	180°C	180°C	
Temperature res	sistance PE Stopper**	-40°C to +80°C	-40 °C to +80 °C	-40°C to +80°C	-40°C to +80°C	
Print color		Blue	Blue	Blue	Blue	
mL	Stopper size	Ordering No.	Ordering No.	Ordering No.	Ordering No.	
12	7/16	246780159	246790151	-	_	
22	7/16	246780253	246790254	_	_	
5	7/16	-	_	_	246750756	
5 W ¹	10/19	246780956	246790957	246710958	-	
10	7/16	-	_	_	246750859	
10 W ¹	10/19	246781052	246791053	246711054	_	
20	10/19	246781258	246791259	_	246751255	
25	10/19	246781455	246791456	246711457	246751452	
50	12/21	246781755	246791756	246711757	246751752	
100	12/21	246782451	246792452	_	246752457	
100	14/23	246782554	246792555	246712556		
200	14/23	246783259	246793251	246713252	246753256	
250	14/23	246783653	246793654	246713655	246753659	
500	19/26	246784452	246794453	246714454	246754458	
1000	24/29	246785457	246795458	246715459	246755454	
1000 W ¹	29/32	246785551	246795552	-	-	
2000	29/32	246786359	246796351	246716352	246756356	
5000²	34/35	246787355	246797356	_	_	

^{*} Batch certificates also available online $\mathbf{W}^1 = \mathbf{W} \mathbf{ide}$ neck

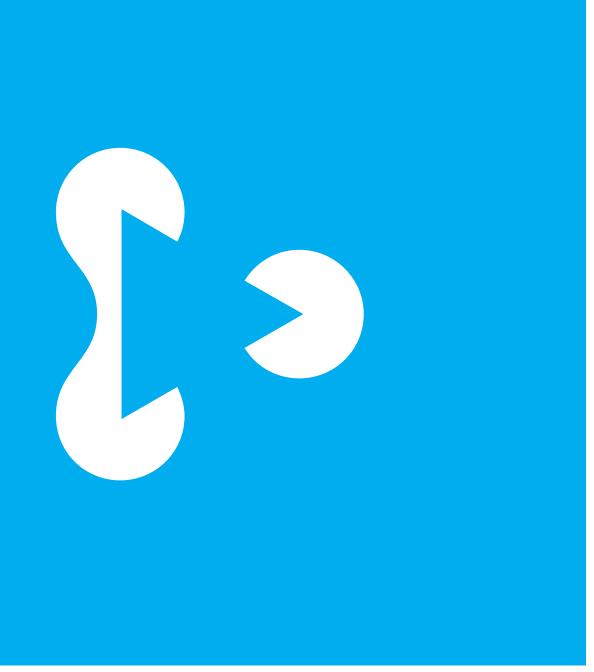
** Chemical resistance of Polyethylene at 20°C

Alcohols, aliphatic	+	Hydrocarbons, aromatic	-
Aldehydes	+	Hydrocarbons, halogenated	-
Alkaline solutions	++	Ketones	+
Esters	+	Acids, dilute or weak	+
Ethers	-	Acids, conc. or strong	+
Hydrocarbons, aliphatic	-	Acids, oxidising	-

⁺⁺ very good resistance + good resistance - low resistance

² = Etched graduation mark

	DURAN® volumetric flasks, amber			DURAN® Stopper, PE
Class B	Class A	Class A	Class A	
				Poo
-	Batch certificate	Individual certificate	UKAS certificate	-
no	yes	yes	yes	-
180°C	180°C	180°C	180°C	-
-40 °C to +80 °C	-40 °C to +80 °C	-40 °C to +80 °C	-40 °C to +80 °C	-40 °C to + 80 °C
White	White	White	White	-
Ordering No.	Ordering No.	Ordering No.	Ordering No.	Color Ordering No.
_	-	-	-	292050201
-	-	-	-	292050201
-	-	-	246740755	292050201
246700957	246760954	246770955	-	292050304
-	-	-	246740858	292050201
246701053	246761059	246771051	-	292050304
246701259	246761256	246771257	246741254	292050304
246701456	246761453	246771454	246741451	292050304
246701756	246761753	246771754	246741751	292050407
-	246762458	246772459	246742456	292050407
246702555	246762552	246772553	-	292050604
246703251	246763257	246773258	246743255	292050604
246703654	246763651	246773652	246743658	292050604
246704453	246764459	246774451	246744457	292050707
246705458	246765455	246775456	246745453	292050801
-	-	-	-	292050904
246706351	246766357	246776358	246746355	292050904
246707356	-	-	-	292051103



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