

## SAFETY INSTRUCTIONS

# DURAN® Measuring and Mixing Cylinder

Product Range	DURAN® MEASURING CYLINDER			DURAN® SUPER DUTY MEASURING CYLINDER
Accuracy class	Class A	Class A	Class B	Class B
Certificate <sup>1</sup>	Batch certificate	UKAS certificate	-	-
mL				
5	21 390 07 01	21 397 07 08	21 396 07 07	-
10	21 390 08 04	21 397 08 02	21 396 08 01	-
25	21 390 14 06	21 397 14 04	21 396 14 03	-
50	21 390 17 06	21 397 17 04	21 396 17 03	-
100	21 390 24 02	21 397 24 09	21 396 24 08	21 394 24 06
250	21 390 36 04	21 397 36 02	21 396 36 01	21 394 36 08
500	21 390 44 03	21 397 44 01	21 396 36 01	21 394 44 07
1000	21 390 54 08	21 397 54 06	21 396 54 05	21 394 54 03
2000	21 390 63 01	21 397 63 08	21 396 63 07	-

<sup>1</sup> Batch certificates also available online

Product Range	DURAN® MIXING CYLINDER		
	high form		low form
Accuracy class	Class A	Class B	Class B
Certificate <sup>1</sup>	Batch certificate	-	-
mL	Joint size		
5	-	-	-
10	10/19	24 618 08 56	21 618 08 01
25	14/23	24 618 14 58	21 618 14 03
50	19/26	24 618 17 58	21 618 17 03
100	24/29	24 618 24 54	21 618 24 08
250	29/32	24 618 36 56	21 618 36 01
500	34/35	24 618 44 55	21 618 44 09
1000	45/40	24 618 54 51	21 618 54 05
2000	45/40	24 618 63 53	21 618 63 07

<sup>1</sup> Batch certificates also available online

**ATTENTION:** The safety instructions are only valid for original DURAN® products. Therefore, please pay attention to the DURAN® trademark which guarantees proven DURAN® quality and highest safety during application.

#### **Working under pressure and vacuum**

- DURAN® volumetric cylinder is not suitable for use under pressure or in a vacuum.

#### **Temperature resistance**

- To ensure a long service life for your volumetric glassware and to exclude possible volume changes, these products should not be heated above +250 °C in drying cabinets or sterilisers.
- The maximum thermal shock resistance is  $\Delta T = 100 \text{ K}$ .
- Always heat up and cool down volumetric glassware gradually, to avoid thermal stresses and thus any possible breakage of the glass.
- Never heat volumetric glassware on a hot plate.
- Before using, the glass surfaces of the DURAN® volumetric glassware have to be

checked for damage such as scratches, cracks or nicks. Damaged glass products must not be used for safety reasons.

#### **Autoclaving/Sterilisation**

- DURAN® volumetric glassware is autoclavable/sterilizable.

#### **Cleaning**

- Cleaning should be carried out manually in a soaking bath or automatically in a dishwasher.
- To care properly for laboratory glassware, it should be washed immediately after use at low temperature, on a short cycle and with low alkalinity.
- Laboratory apparatus that has come into contact with infectious substances or microorganisms should be treated in accordance with the current guidelines.

#### **Manual cleaning**

- The generally recognized method is to wipe and rub the glass with a cloth or sponge soaked in cleaning solution. Abrasive cleaners and abrasive sponges should not be used on laboratory glassware as these can damage the surface of the glass.
- Surface damage can affect the glass properties and limit further use of the product.
- Laboratory glassware should not be soaked for long periods in alkaline media at more than 70 °C since this can have an adverse effect on the printing and may cause glass corrosion. Also to be avoided is severe mechanical action e.g. scraping using a metal spoon.

#### **Automatic laboratory glassware reprocessing**

- When cleaning in a dishwasher, load so that there is no glass-to-glass contact (especially the threads) to avoid chips or abrasions.

ID 32039, NO 001/09.2020



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