



**KAVALIER**

# PRODUCT DATA SHEET

237/24

Issuer's name/ producer: **KAVALIERGLASS, a.s.**

Issuer's address/Producer: **Křížová 1018/6, Prague 5**

Production plant: **Sklářská 359, 285 06 Sázava, Czech Republic**

Object of the declaration:

## **DESICCATOR with plastic knob and stopcock, without plate**

Product IDN & Description

Catalog Nr.

Customer Nr.

Nominal size [mm]

d [mm]

262K

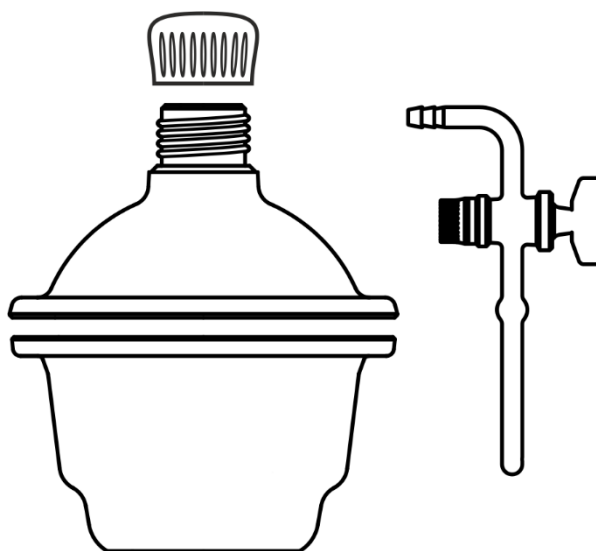
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BDB010

300

395

Scheme of the glass item



### Material specification:

<b>Cover, bowl</b>	clear	Borosilicate glass SIMAX®
<b>Stopcock</b>		
<b>Knob</b>	light blue	Plastic
<b>Purpose of use</b>	laboratory glassware enables usage of vacuum processes desiccation of moist substances, storage of materials sensitive to air humidity	

**Proper usage:**

Apply grease to internal edges of flanges  
Press lid on jar and rotate at least 360° to ensure airtight seal  
Rim in lower portion of bowl holds sample plate over desiccant

**Warning:** Do not heat or subject to pressure. Rated 1- atmosphere vacuum

**The object of the certificate described above is in conformity with the requirements of the following Standards and Regulations:**

**Glass characteristics:**

- ISO 3585 Borosilicate glass 3.3 – Properties
  - Chemical durability (art. 4.1, 4.2, 4.3, 4.4)
  - Physical properties (art. 5.1, 5.2, 5.3, 5.4, 5.5, 5.6)
  
- ISO 13130 Laboratory glassware – Desiccators
  - Type 1 Vacuum desiccator

**Compressive strength**

Vacuum desiccators shall withstand an external pressure of 2bar/ 60 sec or an external pressure of 3bar/ 10 sec.

**Thermal shock resistance**

Vacuum desiccator must be subject to a test of 80 °C in acc. to ISO 718.

**No heavy metals (lead, cadmium, mercury and hexavalent chromium):**

- **Regulation (EC) No. 987/2008 of 8 October 2008 amending Regulation (EC) No. 1907/2006 – REACH as regards Annexes IV and V – glass was exempted from the obligation to register.**

**Chemical characteristics (acc. to Regulation No 1907/2006/EC):**

Composition:	<b>CAS No.</b>	<b>EINECS No.</b>	<b>Component:</b>	<b>Concentration /Percent:</b>
	65997-17-3	266-046-0	Glass, oxide, chemicals	100%

- **Chemical characteristics of borosilicate glass (approximate values)**

Component	Content (percentage by weight)
SiO <sub>2</sub>	80,3%
B <sub>2</sub> O <sub>3</sub>	13,0%
Al <sub>2</sub> O <sub>3</sub>	2,4%
Na <sub>2</sub> O + K <sub>2</sub> O	4,3%

## Characteristics of Borosilicate glass SIMAX®

- **Acid resistance** Class I. ISO 1776
- **Hydrolytic resistance** Class I. HGB1 to ISO 719;  
HGA1 to ISO 720
- **Alkali resistance** Class II. ISO 695
- **Coefficient of mean linear thermal expansion  $\alpha$ :  $3,3 \times 10^{-6} \text{ K}^{-1}$**  ISO 7991; (20/300 °C)
- **Pharmaceutical use**

	<i>European Pharmacopoeia (EP)</i>	<i>US Pharmacopoeia (USP)</i>	<i>Japanese Pharmacopoeia (JP)</i>
<b>Glass</b>	Eur. Ph.10 <sup>th</sup> – 3.2.1	USP <660>	JP16

### Supporting data:

TEST / European Pharmacopoeia 10, Art. 3.2.1	UNIT	LIMIT	RESULT
Hydrolytic resistance - inner surfaces, test A	ml 0,01 mol/l HCl/100ml of leachate	max 0,40	0,04
Hydrolytic resistance - glass grains, test B	mol 0,02/l HCl/g	max 0,1	0,038
Arsenic content	$\mu\text{g As/g}$	max 0,1	< 0,001

### Additional information:

The producer confirms hereby that the characteristics, measures and accuracy of the products listed above are in full conformity with the provisions of the standard.

The producer also declares that the products are safe when used in usual and proper way.

The producer has installed the Quality Assurance System according to ISO 9001 and thus guarantees that all products delivered to the market are in full conformity with the technical documentation and with all fundamental requirements to such products.

Certificate No. 3258 100 23 52 0132 issued by TÜV CERT, Certification Body at TÜV NORD CERT GmbH.

The certificate is issued for the customer: **AUXILAB S.L.**

Sázava, 14. 03. 2024  
Place and date of issue

Ing. Kristýna Machová  
Project Quality Engineer

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