KAVALIER

PRODUCT DATA SHEET

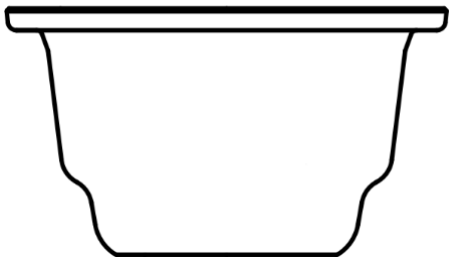
380/25

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: **BOTTOMS FOR DESICCATOR, only glass**

Product IDN & Description	Catalog Nr.	Nominal size [mm]	d [mm]
262S	1632415262202	200	272
	1632415262252	250	333
	1632415262320	300	395

Scheme of the glass item



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

DESCRIPTION:

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*: Not recommended for heat applications**. Do not heat or subject to pressure. Rated 1- atmosphere vacuum

- **Compressive strength**

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

- **Thermal shock resistance**

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

- **Sterilization**

Steam sterilization, in an autoclave at 121 °C/ 20 min/ 2,05 bar is recommended.

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

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

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

Component	Content (percentage by weight)
SiO_2	80,3%
B_2O_3	13,0%
Al_2O_3	2,4%
$Na_2O + K_2O$	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 α: 3,3 x10^{-6} K^{-1}** — ISO 7991; (20/300 °C)
- **Pharmaceutical use**

	European Pharmacopoeia (EP)	*US Pharmacopoeia (USP)*	*Japanese Pharmacopoeia (JP)*
Glass	Eur. Ph.10th – 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	**µg 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, 19. 06. 2025
Place and date of issue

Ing. Kristýna Machová
Project Quality Engineer

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