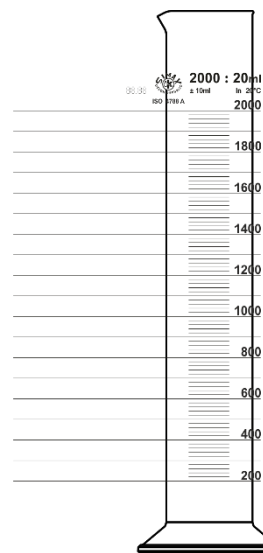


*Issuer's name/ producer:* **KAVALIERGLASS, a.s.**  
*Issuer's address/Producer:* **Křížová 1018/6, Prague 5**  
**office: Sklářská 359, 285 06 Sázava, Czech Republic**

*Object of the declaration:* **Cylinders graduated with hexagonal base and pourout, high form, blue graduation, class A**

<u>Product IDN &amp; Description</u>	<u>Catalog No.</u>	<u>Capacity/ ml</u>
1634/AM/class A	1632432110718	5
	1632432110819	10
	1632432110923	25
	1632432111125	50
	1632432111130	100
	1632432111238	250
	1632432111343	500
	1632432111444	1000
	1632432111546	2000

## Scheme of the glass item



### Material specification:

<b>Cylinder graduated</b>	clear	Borosilicate glass SIMAX®
<b>Print on the body of the cylinder</b>	blue - PANTONE 2935U	in fired-on, chemically resistant ceramic enamel
<b>Purpose of use</b>	laboratory volumetric glassware	

**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 4788 Laboratory glassware – Graduated measuring cylinders
  - Maximum permissible errors in capacity fulfill the values specified in Table 1/ISO 4788. These errors represent the maximum permissible error at any point on the scale.

Table 1 – ISO 4788

Nominal capacity ml		5	10	25	50	100	250	500	1000	2000
Max. permissible error ±ml	Class A	0,05	0,1	0,25	0,5	0,5	1,0	2,5	5,0	10,0

**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%

**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)

*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. 04 100 940602 issued by TÜV CERT, Certification Body at TÜV NORD CERT GmbH.

The certificate is issued for the customer: -

Sázava, 29. 01. 2021  
Place and date of issue

Ing. Kristýna Machová  
Project Quality Engineer

**KAVALIERGLASS, a.s.**  
Křížová 1018/6, 150 00 Praha 5  
office: Sklářská 359, 285 06 Sázava  
Czech Republic  
IČ: 474 68 815  
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