



**KAVALIER**

# DECLARATION OF COMPLIANCE

Issuer's name/ producer:  
Issuer's address/Producer:

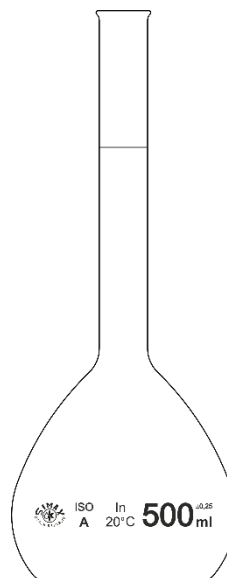
**KAVALIERRGLASS, a.s.**  
Křížová 1018/6, Prague 5  
office: Sklářská 359, 285 06 Sázava, Czech Republic

Object of the declaration:

## FLASKS VOLUMETRIC with rim, without stopper, class A

<u>Product IDN &amp; Description</u>	<u>Catalog No.</u>	<u>Capacity/ ml</u>
1502 A	1632431011018	5
	1632431011019	10
	1632431011023	25
	1632431011025	50
	1632431011030	100
	1632431011037	200
	1632431011038	250
	1632431011043	500
	1632431011044	1000
	1632431011046	2000

### Scheme of the glass item



<b>Material specification:</b>		
<b>Cylinder graduated</b>	clear	Borosilicate glass SIMAX®
<b>Print on the body of the flask</b>	white	in fired-on, chemically resistant ceramic enamel
<b>Purpose of use</b>	laboratory volumetric glassware exact measuring of the liquid capacity, preparation and storage of standard solutions	

**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)
- Glass containers for pharmaceutical use
  - Eur. Ph 10<sup>th</sup> -3.2.1 Glass Type I.
- ISO 1042 Laboratory glassware – One-mark volumetric flasks
  - Maximum permissible errors in capacity fulfill the values specified in Table 1 - ISO 1042.

Table 1 – ISO 1042

Class A, Certified Volumetric Flasks, Transparent	
Nominal capacity [ml]	Accuracy limits [±ml]
5	0,025
10	0,025
25	0,040
50	0,060
100	0,100
200	0,150
250	0,150
500	0,250
1000	0,400
2000	0,600

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

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