

DECLARATION OF COMPLIANCE

Issuer's name: KAVALIERGLASS, a.s.

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

office: Sklářská 359, 285 06 Sázava, Czech Republic

Object of the declaration: LABORATORY, TECHNICAL GLASS

Material: Borosilicate glass SIMAX®, glass with high thermal and chemical resistance

Country of origin: Czech Republic

Purpose of use: Application in technical, pharmaceutical, laboratory or food industry

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 10th Edition 3.2.1 Glass Type I.

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	mg As/g	max 0,1	< 0,001

FOOD CONTACT:

• Commission Regulation (EU) No. 2023/2006

Good manufacturing practice for materials and articles intended to come into contact with food

• Regulation EC No 1935/2004 of 27 October 2004

Directive on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC

• Regulation of Czech Health Ministry Decree No. 38/2001 Coll.

Directive on articles intended to come into contact with foodstuffs

Directive 84/500EEC of 15 October 1984

Directive on the approximation of the laws of the Member States relating to ceramic articles intended to come into contact with foodstuffs.

ISO 7086-1:2000 Glass hollowware in contact with food

Release of lead and cadmium - Part 1: Test method

• ISO 7086-2:2000 Glass hollowware in contact with food

Release of lead and cadmium - Part 2: Permissible limits

ISO 719:2020 Glass — Hydrolytic resistance of glass grains at 98 °C

Method of test and classification

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:

> 65997-17-3 100% 266-046-0 Glass, oxide, chemicals

Chemical stability: Stable

• Chemical characteristics of borosilicate glass (approximate values)

Component	Content (percentage by weight)	
SiO ₂	80,3%	
B ₂ O ₃	13,0%	
Al ₂ O ₃	2,4%	
Na ₂ O + K ₂ 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 α : 3,3 x10⁻⁶ 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 KAVALIE in full conformity with the technical documentation and with all fundamental requirements to such products. VALIERGLASS, <u>å 1018/6</u> 150 00 ; a.s. lätská 359, 285 06 Praha 5 Czech Renuhlin Sázava

Certificate No. 04 100 940602 issued by TÜV CERT, Certification Body at TÜV NORD CERT GmbH.

The certificate is issued for the customer:

Ing. Kristýna Machová Project Quality Engineer

Sázava, 01. 02. 2022 Place and date of issue