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# GB 17762-2022

Replacing GB 17762-1999

## Safe requirements of thermotolerant glassware

## 耐热玻璃器具的安全要求

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# Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020 *Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents*.

This document replaces GB 17762-1999 *Safe and hygienic requirements of thermotolerant glass ware*. Compared with GB 17762-1999, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

a) The name of the standard is changed (see the cover; see the cover of the 1999 edition);

b) The terms and definitions are added (see Chapter 3);

c) The product classification is deleted (see Chapter 3 of the 1999 edition);

d) The distinguishing indicators between superior products and qualified products are deleted, and the technical requirements are unified (see Chapter 4; see Chapter 4 of the 1999 edition);

e) The hydrolytic resistance performance at 98 ℃ is changed (see Chapter 4; see Chapter 4 of the 1999 edition);

f) The technical requirements for hydrolytic resistance of glass grains at 121 °C, acid resistance (spectroscopic method), acid resistance (gravimetric method), alkali resistance, and boron trioxide content are added (see Chapter 4);

g) The ranges of linear thermal expansion coefficient for the heat resistant appliance blown from glass and the heat resistant appliance pressed from glass are specified separately (see Chapter 4; see Chapter 4 of the 1999 edition);

h) The technical requirements for thermal shock resistance temperature are changed (see Chapter 4; see Chapter 4 of the 1999 edition);

i) The requirements for cadmium migration are added (see Chapter 4);

j) The amount of harmful element precipitation is modified to the migration amount of lead and cadmium and the migration amount of arsenic and antimony (see Chapter 4; see Chapter 4 of the 1999 edition);

k) The test methods for hydrolytic resistance of glass grains at 121 °C, acid resistance (spectroscopic method), acid resistance (gravimetric method), alkali resistance, and boron trioxide content are added (see 5.3, 5.4, 5.5, and 5.7);

# Safe requirements of thermotolerant glassware

## 1 Scope

This document specifies the safety technical requirements and test methods for heat-resistant glassware.

This document applies to all types of heat-resistant glassware.

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this text. Among them, for referenced documents with dates, only the versions corresponding to the dates are applicable to this document; for referenced documents without dates, the latest versions (including all amendments) are applicable to this document.

GB/T 4548 Test method and classification for hydrolytic resistance of the interior surfaces of glass containers

GB/T 6579 Laboratory glassware - Thermal shock and thermal shock endurance - Test methods

GB/T 6580 Glass - Resistance to attack by a boiling aqueous solution of mixed alkali - Method of test and classification

GB/T 6581 Glass - Resistance to attack by hydrochloric acid at 100 °C - Flame emission or flame atomic absorption spectrometric method

GB/T 6582 Glass - Hydrolytic resistance of glass grains at 98 ℃ - Method of test and classification

GB/T 12416.2 Glass - Hydrolytic resistance of glass grains at 121 ℃ - Test method and classification

GB/T 15726 Glassware - Stress examination methods

GB/T 15728 Glass resistance to attack by a boiling hydrochloric acid gravimetric method of test and classification

GB/T 16920 Glass - Determination of coefficient of mean linear thermal expansion

GB/T 28194 Glass - Double liner method for determination thermal coefficient

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