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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 21297-2007

Replacing QB 1504-1992

Laboratory glassware -- Interchangeable conical ground joint

实验室玻璃仪器 互换锥形磨砂接头

(English Translation)

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Foreword

This standard is identical with ISO 383. 1976 "interchangeable cone frosted glass laboratory equipment joint" identical technical content, only Editorial changes as follows.

--- Increase the connection designator;

--- Cancel the original requirements of international standards for the surface roughness of preferably less than 0.5 μ m;

--- Leak test methods in Appendix B to text content, wherein the pressure units mm Hg to kPa.

Combined with China's situation to increase test methods, inspection rules, marking, packaging, transportation and storage.

Interchangeable tapered frosted joints to improve the versatility of glass instrument parts interchangeability of great economic value, for light industry has developed Industry standard QB1504-1992 "laboratory glassware interchangeable cone frosted fittings." In accordance with the standard production tapered connector will scrub it can be interchanged with foreign producers of glass equipment parts. Will save our resources, and to strengthen international exchanges is of great significance.

From the date of implementation of this standard, the original light industry standard QB1504-1992 "laboratory glassware interchangeable cone frosted joints" with when the void.

Appendix A of this standard is a normative appendix.

The standard proposed by China National Light Industry Council.

This standard by National Instrument Standardization Technical Committee on Glass (SAC/TC178) centralized.

This standard was drafted. Glass National Light Industry Product Quality Supervision and Inspection Center.

1 Scope

This standard specifies the basic dimensions of four series of laboratory applications interchangeable frosted cone joint, technical requirements, test methods, inspection regulations Then, signs, packaging, transport and storage.

This standard applies to swap tapered frosted glassware fittings, also applies to the transparent exchange tapered connector.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1031 surface roughness parameters and their values (GB/T 1031-1995, neq ISO 468. 1982) GB/T 2828.1 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan (GB/T 2828.1-2003, ISO 2859-1:1999, IDT) GB/T 6543 Corrugated Box

3.1 Taper

Taper fitting is $(1 \pm 0.006) \cdot 10$, i.e., an increment of the diameter, the length of the shaft diameter is 10 increments, the increment of the diameter tolerance it is ± 0.006 .

3.2 Big end diameter

We should adopt the following series.

5-7.5-10-12.5-14.5-18.8-21.5-24-29.2-34.5-40-45-50-60-71-85-100mm.

3.3 Grinding axial length

Grinding axial length L (mm) according to equation (1).

Where.

K --- constant;

Numerical calculations into integers.

Constant K values were taken 4, 6 and 8,4 joints series, see Table 1. K6 series are

preferred.

Table 1 millimeters

Fitting symbol

Big end diameter

Grinding axial length L K2 series K4 series K6 series K8 Series 5/H 7/H 10/H 7.5 GB/T
21297-2007/ISO 383. 1976