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Interchangeable conical glass ground joints

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Interchangeable conical glass ground joints

Introduction This Standard is the Japanese Industrial Standard prepared on the basis of ISO 383, *Laboratory glassware—Interchangeable conical ground joints* published as the first edition in 1976. The body of this Standard prescribes the contents which was specified in former Japanese Industrial Standards, and the Annex 3 in this Japanese Industrial Standard specifies the contents corresponding to the International Standard without any technical modification.

1 Scope This Japanese Industrial Standard specifies the interchangeable conical ground joints (hereafter referred to as “interchangeable conical ground joint”) of glassware for chemical analysis.

Provided that the interchangeable conical ground joint to be used for volumetric flask may follow Annex 1, and the interchangeable conical ground joint to be used for narrow mouth bottle may follow Annex 2.

Remarks 1 Normative references to this Standard are listed as follows.

JIS B 0601 *Surface roughness—Definitions and designation*

JIS B 0651 *Surface texture—Instruments for the assessment of surface texture—Profile method*

JIS B 7502 *Micrometer callipers*

JIS B 7507 *Vernier, dial and digital callipers*

JIS R 3503 *Glass apparatus for chemical analysis*

2 International Standard corresponding to this Standard is as follows.

ISO 383 : 1976 *Laboratory glassware—Interchangeable conical ground joints*

2 Type Interchangeable conical ground joints are classified into 4 types as follows.

- (1) Long size : Follow Table 1.
- (2) Medium size : Follow Table 2.
- (3) Short size : Follow Table 3.
- (4) ISO size : Follow Annex 3.

3 Quality The quality of interchangeable conical ground joints conforms to the stipulation in JIS R 3503.

4 Airtightness The airtightness of interchangeable conical ground joints shall be such that, being tested according to 7.4, the increase of pressure due to leakage does not exceed 1.33 kPa in 5 minutes.

5 Surface roughness The surface roughness on the tapered part of interchangeable conical ground joint shall not exceed 1 μm in terms of the arithmetic mean roughness (R_a) which is defined by 2 (1) of JIS B 0601, and it is preferable to be less than 0.5 μm .