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Interchangeable spherical ground glass joints

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Interchangeable spherical ground glass joints

Introduction This Standard is Japanese Industrial Standard made on the basis of ISO 641, *Laboratory glassware — Interchangeable spherical ground joints* published as the first edition in 1975. In the body of this Standard, the content specified in the former Standard is described, and in Annexes, the corresponding technical content of the International Standard is specified without any technical modification.

1 Scope This Japanese Industrial Standard specifies interchangeable spherical ground joints of glass apparatus for chemical analysis (hereafter, referred to as “interchangeable spherical ground joints”).

Remarks 1 The normative references to this Standard are as follows:

JIS B 0601	<i>Surface roughness — Definitions and designation</i>
JIS B 0651	<i>Surface texture — Instruments for the assessment of surface texture — Profile method</i>
JIS B 1501	<i>Steel balls for ball bearings</i>
JIS B 7502	<i>Micrometer callipers</i>
JIS B 7507	<i>Vernier, dial and digital callipers</i>
JIS R 3503	<i>Glass apparatus for chemical analysis</i>

2 The corresponding International Standard to this Standard is as follows.

ISO 641:1975 *Laboratory glassware — Interchangeable spherical ground joints*

2 Quality The quality of interchangeable spherical ground joints shall be as specified in JIS R 3503.

3 Airtightness For the airtightness of interchangeable spherical ground joints, when subjected to the test of 6.4, increase in pressure due to leakage shall not exceed the following numerical value in one min.

S7 to S13 0.93 kPa, that of S19 or higher 1.99 kPa

4 Surface roughness The surface roughness of the spherical part of interchangeable spherical ground joints shall not exceed $1\ \mu\text{m}$ as arithmetic average roughness (R_a) determined in 2(1) of JIS B 0601 and should preferably be under $0.5\ \mu\text{m}$.

5 Symbol, shape and dimensions The symbol, shape and dimensions of interchangeable spherical ground joints shall be as given in Table 1.