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JAPANESE INDUSTRIAL STANDARD

General rules for the sample preparation of particle size analysis of fine ceramic raw powder

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JAPANESE INDUSTRIAL STANDARD

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General rules for the sample preparation of
particle size analysis of fine ceramic raw powder R 1622-1995

1. Scope This Japanese Industrial Standard specifies the sample wet preparation method common to particle size analysis of fine ceramic raw powder which is not granulated.

Remarks: The following standards are cited in this Standard.

JIS K 8101 Ethanol (99.5)

JIS M 8100 Particulate materials - General rules for methods of sampling

JIS R 1620 Testing methods for particle density of fine ceramic powder

2. Definitions For the main terms used in this Standard, the following definitions apply.

- (1) dispersion media Solvent⁽¹⁾ or solution⁽²⁾ which disperses a sample to be suspended.

Notes ⁽¹⁾ Distilled water, ethanol, etc.

⁽²⁾ Sodium hexametaphosphate distilled water solution or the like.

- (2) lot A certain amount of fine ceramic raw powder to determine the particle size analysis.

3. Sample

3.1 Sampling A sample shall be sampled from a lot in accordance with JIS M 8100 so as not to generate errors caused by the sampling.

4. Dispersion media

4.1 Classification of dispersion media Dispersion media shall be classified as follows.

- (1) Sodium hexametaphosphate distilled water solution When a sample is insoluble in water or considered insoluble therein, about 0.01 wt% to 0.1 wt% of sodium hexametaphosphate distilled water solution is used. The sodium hexametaphosphate distilled water solution should preferably be prepared on the day when it is used.
- (2) Ethanol When a sample is soluble in water or react therewith, guaranteed grade ethanol specified in JIS K 8101 is used.