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**Methods for chemical analysis of
fine silicon nitride powders for fine
ceramics**

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Advanced Industrial Science and Technology (AIST) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS R 1603** : 1994 is replaced with this Standard.

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Methods for chemical analysis of fine silicon nitride powders for fine ceramics

1 Scope

This Japanese Industrial Standard specifies the methods for chemical analysis of fine silicon nitride powders used as the raw material for manufacture of fine ceramics.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 0050 *General rules for chemical analysis*

JIS K 0115 *General rules for molecular absorptiometric analysis*

JIS K 0116 *General rules for atomic emission spectrometry*

JIS K 0127 *General rules for ion chromatographic analysis*

JIS K 0557 *Water used for industrial water and wastewater analysis*

JIS K 8001 *General rule for test methods of reagents*

JIS K 8005 *Reference materials for volumetric analysis*

JIS K 8007 *General rule for test methods of highly purified reagents*

JIS R 6003 *Method for sampling of abrasive grains*

JIS Z 8401 *Guide to the rounding of numbers*

3 General items

General items common to the analysis method shall be in accordance with **JIS K 0050**, **JIS K 0115**, **JIS K 0116**, **JIS K 0127**, **JIS K 8001** and **JIS K 8007**.

4 Analysis items

Analysis items specified in this Standard shall be as follows.

- a) Total silicon (T.Si)
- b) Total nitrogen (T.N)
- c) Aluminium (Al)
- d) Iron (Fe)
- e) Calcium (Ca)
- f) Oxygen (O)
- g) Carbon (C)