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**Artificial abrasives**

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## Foreword

This Japanese Industrial Standard has been 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 Japan Grinding Wheel Association (JGWA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS R 6111 : 2005**), which has been technically revised.

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# Artificial abrasives

## 1 Scope

This Japanese Industrial Standard specifies the requirements for artificial abrasives made of alumina-base, alumina zirconia-base and silicon carbide-base materials (hereafter referred to as artificial abrasives) among artificial abrasives to be used for raw materials of abrasive products such as bonded abrasive products and coated abrasives and for other grinding or polishing processing. However, it does not apply to super-abrasives (diamond/CBN) or natural abrasives (e.g. garnet).

Examples of other grinding or polishing processing are shown as follows :

- processing with polishing brush;
- processing with free abrasive grain, such as lapping, polishing and sandblast.

## 2 Normative references

Part or all of the provisions of the following standards, 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 R 6001-1 *Bonded abrasives — Determination and designation of grain size distribution — Part 1 : Macrogrits F4 to F220*

JIS R 6001-2 *Bonded abrasives — Determination and designation of grain size distribution — Part 2 : Microgrits*

JIS R 6004 *Abrasives, bonded abrasive products and coated abrasives — Terms and marks*

JIS R 6010 *Coated abrasive grain sizes*

JIS R 6011 *Testing method for grain size of coated abrasive macrogrits (P12-P220)*

JIS R 6012 *Testing method for grain size of coated abrasive microgrits (P240-P2500)*

JIS R 6123 *Method for chemical analysis of alumina abrasives*

JIS R 6124 *Method for chemical analysis of silicon carbide abrasives*

JIS R 6125 *Testing method for density of artificial abrasives*

JIS R 6130 *Testing method for bulk density of artificial abrasives*

## 3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS R 6004** apply.