

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS R 6001-1 : 2017

(GIS/JSA)

**Bonded abrasives – Determination
and designation of grain size
distribution – Part 1: Macrogrits F4
to F220**

ICS 25.100.70

Reference number : **JIS R 6001-1 : 2017 (E)**

Date of Establishment: 2017-01-20

Date of Public Notice in Official Gazette: 2017-01-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic

Materials

JIS R 6001-1:2017, First English edition published in 2017-05

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2017

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

KK/AT

Contents

	Page
Introduction.....	1
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	2
4 Grain sizes.....	2
5 Grain size distribution test.....	3
5.1 General.....	3
5.2 Equipment.....	3
5.3 Measurement procedure.....	4
6 Grain size testing.....	6
6.1 Procedure for grain size testing.....	6
6.2 Evaluation of grain size.....	6
6.3 Judgement and report of sieving test result.....	10
7 Marking.....	10
Annex A (normative) Evaluation of grain size in accordance with the corresponding International Standard.....	11
Annex JA (normative) Standard sample.....	13
Annex JB (informative) Comparison table between JIS and corresponding International Standard.....	14

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Grinding Wheel Association (GIS)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Consequently, **JIS R 6001:1998** and **JIS R 6002:1998** have been withdrawn and partially replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

JIS R 6001 series consists of the following 2 parts under the general title “*Bonded abrasives—Determination and designation of grain size distribution*”:

Part 1: Macrogrits F4 to F220

Part 2: Microgrits

Bonded abrasives—Determination and designation of grain size distribution— Part 1: Macrogrits F4 to F220

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 8486-1** published in 1996, modifying some of its technical contents to reflect the needs and conditions unique to Japan.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies the size distribution of artificial abrasive (alumina abrasives and silicon carbide abrasives) specified in **JIS R 6111**, that are of macrogrits from F4 to F220.

NOTE 1 This Standard is inapplicable to coated abrasives, and abrasive grains and abrasives used for loose grains.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 8486-1:1996 *Bonded abrasives—Determination and designation of grain size distribution—Part 1: Macrogrits F4 to F220* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOL (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

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 R 6003 *Method for sampling of abrasive grains*

NOTE Corresponding International Standard: ISO 9138:1993 *Abrasive grains—Sampling and splitting* (MOD)

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

JIS R 6111 *Artificial abrasives*

JIS Z 8401 *Guide to the rounding of numbers*

JIS Z 8801-1 *Test sieves—Part 1: Test sieves of metal wire cloth*