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BS ISO 6344-3:2013



BSI Standards Publication

Coated abrasives — Grain size analysis

Part 3: Determination of grain size distribution of microgrits P240 to P2500

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This British Standard is the UK implementation of ISO 6344-3:2013. It supersedes BS ISO 6344-3:1998 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MTE/13, Grinding wheels, abrasive tools, paper and cloths, and powders.

A list of organizations represented on this committee can be obtained on request to its secretary.

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© The British Standards Institution 2013. Published by BSI Standards Limited 2013

ISBN 978 0 580 70616 5

ICS 25.100.70

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 May 2013.

Amendments issued since publication

Date	Text affected
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Second edition
2013-05-01

Coated abrasives — Grain size analysis —

Part 3:

Determination of grain size distribution of microgrits P240 to P2500

Abrasifs appliqués — Granulométrie —

Partie 3: Détermination de la distribution granulométrique des micrograins P240 à P2500



Reference number
ISO 6344-3:2013(E)

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6344-3 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 5, *Grinding wheels and abrasives*.

This second edition cancels and replaces the first edition (ISO 6344-3:1998). It also incorporates the Technical Corrigendum ISO 6344-3:1998/Corr.1:1999. The significant changes against ISO 6344-3:1998 are the following:

- a) new definitions have been included in [Clause 3](#);
- b) the test procedure in [4.3](#) has been completely updated; requirements for the use of the US sedimentation tube have replaced the reference to ISO 8486-2, in order to facilitate the use of this part of ISO 6344;
- c) Bibliography has been added.

ISO 6344 consists of the following parts, under the general title *Coated abrasives — Grain size analysis*:

- *Part 1: Grain size distribution test*
- *Part 2: Determination of grain size distribution of macrogrits P12 to P220*
- *Part 3: Determination of grain size distribution of microgrits P240 to P2500*

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Coated abrasives — Grain size analysis —

Part 3:

Determination of grain size distribution of microgrits P240 to P2500

1 Scope

This part of ISO 6344 specifies a method for determining or testing the grain size distribution of electro-fused aluminium oxide and silicon carbide microgrits P240 to P2500 for coated abrasives as defined in ISO 6344-1.

It applies both to those grits used in the manufacture of coated abrasive products and to those grits taken from products for testing purposes.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6344-1:1998, *Coated abrasives — Grain size analysis — Part 1: Grain size distribution test*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

microgrit

abrasive grit having a median equivalent diameter of 58,5 µm to 8,4 µm, whose grain size distribution is determined by sedimentation

3.2

grain size distribution

percentage of grains of different sizes composing the macrogrit or microgrit

4 Testing of microgrits P240 to P1200

4.1 General

The testing of microgrits P240 to P1200 by sedimentation shall be carried out using the US sedimentometer whereby the grain size distribution is determined; see [4.3.1](#).

The limits are specified in ISO 6344-1:1998, Table 2, which is reproduced as (the following) [Table 1](#).