BRITISH STANDARD

BS ISO
603-4:1999

# Bonded abrasive products — Dimensions —

## Part 4: Grinding wheels for surface grinding/peripheral grinding

ICS 25.100.70

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# National foreword

This British Standard reproduces verbatim ISO 603-4:1999 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee MTE/13, Grinding wheels, abrasive tools, paper, cloths and powder, which has the responsibility to:

— aid enquirers to understand the text;

— present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;

— monitor related international and European developments and promulgate them in the UK.

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

**Cross-references**

The British Standards which implement international publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled "International Standards Correspondence Index", or by using the "Find" facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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**Summary of pages**

This document comprises a front cover, an inside front cover, the ISO title page, pages ii and iii, a blank page, pages 1 to 16, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

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INTERNATIONAL STANDARD

**ISO 603-4**

First edition
1999-07-15

# Bonded abrasive products — Dimensions —

## Part 4:
Grinding wheels for surface grinding/peripheral grinding

*Produits abrasifs agglomérés — Dimensions —*

*Partie 4: Meules pour rectification plane/meulage tangentiel*

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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 3.

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.

International Standard ISO 603-4 was prepared by Technical Committee ISO/TC 29, *Small tools*, subcommittee SC 5, *Grinding wheels and abrasives*.

This first edition, together with ISO 603-1:1999 to ISO 603-3:1999 and ISO 603-5:1999 to ISO 603-16:1999, cancels and replaces ISO/R 603:1967, ISO 603-2:1981, ISO 1117:1975, ISO 2220:1972, ISO 2933:1974, ISO 3290:1976 and ISO 3921:1976 as a technical revision of these standards.

ISO 603 consists of the following parts, under the general title *Bonded abrasive products — Dimensions*:

— *Part 1: Grinding wheels for external cylindrical grinding between centres*

— *Part 2: Grinding wheels for centreless external cylindrical grinding*

— *Part 3: Grinding wheels for internal cylindrical grinding*

— *Part 4: Grinding wheels for surface grinding/peripheral grinding*

— *Part 5: Grinding wheels for surface grinding/face grinding*

— *Part 6: Grinding wheels for tool and tool room grinding*

— *Part 7: Grinding wheels for manually guided grinding*

— *Part 8: Grinding wheels for deburring and fettling/snagging*

— *Part 9: Grinding wheels for high-pressure grinding*

— *Part 10: Stones for honing and superfinishings*

— *Part 11: Hand finishing sticks*

— *Part 12: Grinding wheels for deburring and fettling on a straight grinder*

— *Part 13: Grinding wheels for deburring and fettling on a vertical grinder*

— *Part 14: Grinding wheels for deburring and fettling/snagging on an angle grinder*

— *Part 15: Grinding wheels for cutting-off on stationary or mobile cutting-off machines*

— *Part 16: Grinding wheels for cutting-off on hand held power tools*

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# Bonded abrasive products — Dimensions —

# Part 4:
Grinding wheels for surface grinding/peripheral grinding

## 1 Scope

This part of ISO 603 specifies the nominal dimensions, in millimeters, of:

— Type 1: Straight grinding wheel

— Type 5: Wheel recessed on one side

— Type 7: Wheel recessed on both sides

— Type 20: Wheel relieved on one side

— Type 21: Wheel relieved on both sides

— Type 22: Wheel relieved on one side and recessed on the other side

— Type 23: Wheel relieved and recessed on one side

— Type 24: Wheel relieved and recessed on one side and recessed on the other side

— Type 25: Wheel relieved and recessed on one side and relieved on the other side

— Type 26: Wheel relieved and recessed on both sides.

— Type 38: Hubbed wheel

— Type 39: Double hubbed wheel

These bonded abrasive products are intended to be used for the grinding of plane surfaces where the workpiece is secured to a reciprocating table. The workpiece and the grinding wheel are mechanically guided.

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## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 603. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 603 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the lates edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 525:1999, *Bonded abrasive products — General requirements*.

ISO 6103:1999, *Bonded abrasive products — Static balancing of grinding wheels — Testing*.

ISO 13942:—[1)], *Bonded abrasive products — Limit deviations and run-out tolerances.*

[1)] To be published.



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