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Irish Standard  
I.S. EN 12413:2007+A1:2011

# Safety requirements for bonded abrasive products

## I.S. EN 12413:2007+A1:2011

*Incorporating amendments/corrigenda/National Annexes issued since publication:*  
EN 12413:2007/A1:2011

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English Version

## Safety requirements for bonded abrasive products

Exigences de sécurité pour les produits abrasifs  
agglomérés

Sicherheitsanforderungen für Schleifkörper aus  
gebundenem Schleifmittel

This European Standard was approved by CEN on 10 May 2007 and includes Amendment 1 approved by CEN on 17 January 2011.

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## Foreword

This document (EN 12413:2007+A1:2011) has been prepared by Technical Committee CEN/TC 143 "Machine tools — Safety", the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

This document includes Amendment 1, approved by CEN on 2011-01-17.

This document supersedes  $\boxed{A_1}$  EN 12413:2007  $\langle A_1 \rangle$ .

The start and finish of text introduced or altered by amendment is indicated in the text by tags  $\boxed{A_1}$   $\langle A_1 \rangle$ .

Significant technical differences between  $\boxed{A_1}$  EN 12413:2007  $\langle A_1 \rangle$  and EN 12413:1999 are as follows:

- a) deletion of different abbreviations in Table 1 to Table 4 and Table 7;
- b) deletion of 140 m/s and 160 m/s in Clause 5.1.1;
- c) revision of Table 11 "Maximum operating speeds, safety factors and minimum bursting speeds for different types of machine and types of application". In the revised Table 11 (now Table 4) are there only relations between the range of  $v_s$ , the safety factor  $S_{br}$  and burst speed factor  $f_{br}$ ;
- d) in Clause 5.1.3 "Side load capacity" (new Clause 5.2.3) are the relevant values for the different tests depending on  $v_s$  and the outside diameter of the abrasive product;
- e) extension of requirements in Clause 5.6 "Blotters", Annex B "Blotters" (normative) is completely deleted;
- f) revision of Clause 6 in accordance with rules for the structure and drafting of CEN/CENELEC publications;
- g) Table 13 "Safety test speeds" deleted and revision of Table 14 "Scope of the inspection";
- h) revision of Clause 7 "Information for use";
- i) content of Table A.2 "Colour codes and design of colour codes" to change as additional marking in Annex D (informative);
- j) in Table A.3 "Restrictions of use", RE2 deleted and RE8 included;
- k) Figures A.1, A.2 and Clause A.4 "Design of the marking" deleted;
- l) revision of Annex C (normative), [now Annex B (informative)], Mounted points only as an example calculation of the maximum permissible speed of rotation;
- m) extension of Annex D (informative), [now Annex C (normative)], with additional requirements concerning the verification methods for side load capacity.

$\boxed{A_1}$  Significant technical differences between EN 12413:2007+A1:2011 and EN 12413:2007 are as follows:

- n) in 6.2, Table 7, the requirements for the scope of inspection of "all other abrasive products" have been changed.  $\langle A_1 \rangle$

**I.S. EN 12413:2007+A1:2011**

**EN 12413:2007+A1:2011 (E)**

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## **Introduction**

This standard has been prepared to provide one means of conforming with essential safety requirements, e.g. of the Safety Product Directive and associated EFTA regulations.

This standard is addressed to designers, manufacturers and suppliers of the abrasive products described in the scope. In addition, it helps designers, manufacturers and suppliers of grinding machines in the selection of abrasive products, in order to reduce the risks and achieve conformity of the respective machinery with the Essential safety requirements of the Machinery Directive.

The extent to which hazards are covered is indicated in the scope of this standard.

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