



NSAI
Standards

Irish Standard
I.S. EN 13743:2017

Safety requirements for coated abrasive products

I.S. EN 13743:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 13743:2017

Published:

2017-01-11

*This document was published
under the authority of the NSAI
and comes into effect on:*

2017-01-30

ICS number:

25.100.70

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 13743:2017 is the adopted Irish version of the European Document EN 13743:2017, Safety requirements for coated abrasive products

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 13743

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2017

ICS 25.100.70

Supersedes EN 13743:2009

English Version

Safety requirements for coated abrasive products

Prescriptions de sécurité pour les produits abrasifs
appliqués

Sicherheitsanforderungen für Schleifmittel auf
Unterlagen

This European Standard was approved by CEN on 14 November 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

European foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
3.1 General.....	5
3.2 Grinding machines.....	5
3.3 Type of application	6
3.3.1 General.....	6
3.4 Symbols.....	7
4 List of significant hazards	7
5 Safety requirements.....	8
5.1 General requirements	8
5.1.1 General.....	8
5.1.2 Sequence of maximum operating speeds.....	8
5.2 Safety factors.....	9
5.2.1 Safety factors for flap wheels, flap discs and vulcanised fibre discs	9
5.2.2 Safety factors for spindle mounted flap wheels.....	9
5.2.3 Safety factor for back-up pads for vulcanised fibre discs.....	9
5.3 Dimensional limitations and maximum operating speeds.....	9
5.4 Marking.....	11
6 Verification of the safety requirements.....	11
6.1 Verification of the general requirements.....	11
6.2 Verification of the safety factor.....	11
6.3 Verification of the dimensional requirements.....	12
6.4 Verification of the marking	12
7 Information for use	12
Annex A (normative) Marking.....	13
A.1 Content of marking.....	13
A.1.1 Marking requirements.....	13
A.1.2 Additional inscriptions	15
A.2 Execution of marking.....	15
Annex B (normative) Colour codes	16
Annex C (informative) Speed conversion table.....	17
Bibliography.....	18

European foreword

This document (EN 13743:2017) 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 July 2017, and conflicting national standards shall be withdrawn at the latest by July 2017.

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

This document supersedes EN 13743:2009.

Significant changes against EN 13743:2009 are as follows:

- a) the scope was clarified and the types of permissible abrasive grains were specified;
- b) Table 3 was updated with additional hazard designations;
- c) Table 5 was revised according to current scientific and technical knowledge;
- d) Clause 7 was modified in order to avoid overlap with European legislation;
- e) the short signs on the restriction of use were removed from Annex A.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 13743:2017 (E)

Introduction

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

This European Standard is addressed to manufacturers, suppliers and importers of the coated abrasive products and back-up pads described in the scope. In addition, it helps manufacturers, suppliers and importers 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 European Standard.

1 Scope

This European Standard is applicable to the following coated abrasive products and a combination of coated and non-woven abrasive products: flap wheels, flap discs, vulcanised fibre discs and spindle mounted flap wheels. It also applies to back-up pads for vulcanised fibre discs. These products are manufactured using the following abrasive grains: aluminium oxide, silicon carbide, diamond, or CBN.

This European Standard specifies requirements and/or measures for removal or reduction of hazards resulting from the design and application of the coated abrasive products and clamping devices.

This European Standard also contains procedures and tests for verification of compliance with the requirements as well as safety information for use, which is to be made available to the user by the manufacturer.

The hazards taken into consideration are listed in Clause 4 of this standard.

This European Standard does not apply to abrasive products entirely of non-woven web.

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 554, *Standard atmospheres for conditioning and/or testing — Specifications*

3 Terms and definitions

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

3.1 General

3.1.1

coated abrasive product

abrasive product composed of backing, abrasive particles and bond and optionally a supporting element

Note 1 to entry: Examples for supporting elements are pads and spindles.

3.1.2

clamping device

device for fixing and positioning the abrasive product on the spindle of the grinding machine

Note 1 to entry: Clamping devices include e.g. back-up pads for vulcanised fibre discs, and clamping flanges for flap wheels.

3.2 Grinding machines

3.2.1

stationary grinding machine

grinding machine being fixed in position during operation

Note 1 to entry: See for example EN ISO 16089.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-