SLOVENSKI STANDARD
SIST EN ISO 14232-1:2017

01-julij-2017

Nadomešča:
SIST EN 1274:2004

Vroče brizganje - Prah - 1. del: Lastnosti in tehnični pogoji za dobavo (ISO 14232-1:2017)

Thermal spraying - Powders - Part 1: Characterisation and technical supply conditions (ISO 14232-1:2017)

Thermisches Spritzen - Pulver - Teil 1: Zusammensetzung und technische Lieferbedingungen (ISO 14232-1:2017)

Projection thermique - Poudres - Partie 1: Caractérisation et conditions techniques de livraison (ISO 14232-1:2017)

Ta slovenski standard je istoveten z: **EN ISO 14232-1:2017**

ICS:

25.220.20	Površinska obdelava	Surface treatment
77.160	Metalurgija prahov	Powder metallurgy

SIST EN ISO 14232-1:2017 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 14232-1

April 2017

ICS 25.220.20

Supersedes EN 1274:2004

English Version

Thermal spraying - Powders - Part 1: Characterization and technical supply conditions (ISO 14232-1:2017)

Projection thermique - Poudres - Partie 1: Caractérisitation et conditions techniques de livraison (ISO 14232-1:2017)

Thermisches Spritzen - Pulver - Teil 1: Zusammensetzung und technische Lieferbedingungen (ISO 14232-1:2017)

This European Standard was approved by CEN on 2 April 2017.

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

This document (EN ISO 14232-1:2017) has been prepared by Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" in collaboration with Technical Committee CEN/TC 240 "Thermal spraying and thermally sprayed coatings" the secretariat of which is held by DIN.

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 October 2017, and conflicting national standards shall be withdrawn at the latest by October 2017.

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

This document supersedes EN 1274:2004.

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.

Endorsement notice

The text of ISO 14232-1:2017 has been approved by CEN as EN ISO 14232-1:2017 without any modification.

INTERNATIONAL STANDARD

ISO 14232-1

First edition
2017-03

Thermal spraying — Powders —

Part 1: Characterization and technical supply conditions

Projection thermique — Poudres —

Partie 1: Caractérisitation et conditions techniques de livraison

Reference number
ISO 14232-1:2017(E)

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*.

This first edition of ISO 14232-1, together with ISO/TR 14232-2, cancels and replaces ISO 14232:2000.

A list of all parts in the ISO 14232 series can be found on the ISO website.

Introduction

For thermal spray processes that use material in a powder form, the powder can be considered as one of the main elements requiring control to produce an acceptable coating. The chemical and physical properties of powder play a fundamental role in the creation of desired coating properties. The size, shape and morphology of the powder particles determine the melting behaviour and therefore the processing of powders in general.

To keep the coating properties and the spray process as consistent as possible, it is very important to maintain all the characteristics of powder particles within limited tolerances.

An exception is granted to details on the properties of sprayed coatings. Such properties, which result from spraying conditions not covered by this document, e.g. gas composition, deposition efficiency, material flow rate, stand-off distance, etc., can differ greatly from the properties of the original powder.

The ISO 14232 series consists of two parts. This document examines the characterization of spray powders. ISO/TR 14232-2 is a technical report that examines how technical literature describes the application of powders.

