

Irish Standard I.S. EN ISO 14917:2017

Thermal spraying - Terminology, classification (ISO 14917:2017)

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I.S. EN ISO 14917:2017

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NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

 Dublin 9
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EUROPEAN STANDARD

EN ISO 14917

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2017

ICS 01.040.25; 25.220.20

Supersedes EN 657:2005

English Version

Thermal spraying - Terminology, classification (ISO 14917:2017)

Projection thermique - Terminologie, classification (ISO 14917:2017)

Thermisches Spritzen - Begriffe, Einteilung (ISO 14917:2017)

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EN ISO 14917:2017 (E)

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EN ISO 14917:2017 (E)

European foreword

This document (EN ISO 14917:2017) 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.

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INTERNATIONAL STANDARD

ISO 14917

Second edition 2017-03

Thermal spraying — Terminology, classification

Projection thermique — Terminologie, classification





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Foreword

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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).

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

This second edition cancels and replaces the first edition (ISO 14917:1999), which has been technically revised.

Introduction

Requests for official interpretations of technical aspects of this document should be directed to the Secretariat of ISO/TC 107, *Metallic and other inorganic coatings*, via your national standards body; a listing of these bodies can be found at www.iso.org.

Thermal spraying — Terminology, classification

1 Scope

This document defines processes and general terms for thermal spraying. It classifies thermal spraying processes according to type of spray material, to type of operation and to type of energy carrier. It specifies abbreviations for spray processes, sprayed coatings, and manufacturing steps.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6508-1, Metallic materials — Rockwell hardness test — Part 1: Test method

ISO 17836, Thermal spraying — Determination of the deposition efficiency for thermal spraying

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

thermal spraying

TS

process in which surfacing materials are heated to the plastic or molten state, inside or outside of the spraying gun/torch, and then propelled onto a prepared surface

Note 1 to entry: The substrate may undergo some localized surface melting in the particle impact area only.

Note 2 to entry: To obtain specific properties of the deposit, a subsequent thermal, mechanical or sealing treatment may be used.

4 Process variations

4.1 Classification according to the type of spray material

Distinction of the following variations:

- wire spraying;
- rod spraying;
- cord spraying;
- powder spraying;
- suspension spraying.



Product Page

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