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Thermal spraying - Qualification testing of thermal sprayers (ISO 14918:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/18

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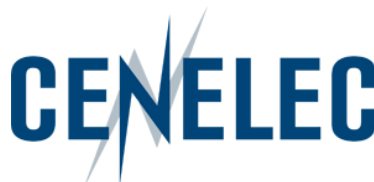
**Thermal spraying - Qualification testing of thermal
sprayers (ISO 14918:2018)**Projection thermique - Qualification des agents en
projection thermique (ISO 14918:2018)Thermisches Spritzen - Prüfung von thermischen
Spritzern (ISO 14918:2018)

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EN ISO 14918:2018 (E)

| Contents | Page |
|-------------------------------|-------------|
| European foreword..... | 3 |

European foreword

This document (EN ISO 14918:2018) 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of an identical text or by endorsement, at the latest by December 2018, and conflicting national standards shall be withdrawn at the latest by December 2018.

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Endorsement notice

The text of ISO 14918:2018 has been approved by CEN as EN ISO 14918:2018 without any modification.

INTERNATIONAL STANDARD

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Thermal spraying — Qualification testing of thermal sprayers

*Projection thermique — Qualification des agents en projection
thermique*



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ISO 14918:2018(E)

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Contents

Page

| | |
|---|-----------|
| Foreword | iv |
| Introduction | v |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 Essential requirements for qualification testing | 2 |
| 4.1 General..... | 2 |
| 4.2 Equipment operation..... | 2 |
| 4.3 Masking procedure..... | 2 |
| 4.4 Surface preparation..... | 3 |
| 4.5 Environmental conditions..... | 3 |
| 4.6 Application equipment..... | 3 |
| 5 Range of qualification | 3 |
| 5.1 General..... | 3 |
| 5.2 Thermal spraying processes..... | 3 |
| 5.2.1 Grouping of thermal spraying processes..... | 3 |
| 5.2.2 Application methods..... | 3 |
| 5.2.3 Spray materials..... | 3 |
| 5.3 Qualification scope..... | 4 |
| 5.4 Supervision..... | 4 |
| 5.5 Shapes and dimensions of test pieces..... | 4 |
| 5.6 Test methods..... | 4 |
| 5.7 Acceptance requirements for test pieces..... | 4 |
| 5.8 Spray consumables for the test..... | 5 |
| 6 Examination and testing | 5 |
| 6.1 General..... | 5 |
| 6.2 Job knowledge test..... | 5 |
| 6.3 Practical test..... | 5 |
| 7 Re-tests | 5 |
| 7.1 General..... | 5 |
| 7.2 Additional tests..... | 5 |
| 8 Period of validity | 5 |
| 8.1 Initial qualification..... | 5 |
| 8.2 Prolongation..... | 6 |
| 8.2.1 Period..... | 6 |
| 8.2.2 Thermal sprayer and production spraying..... | 6 |
| 8.2.3 Interruption periods in thermal spray works..... | 6 |
| 8.3 Requirements..... | 6 |
| 8.4 Scheduling..... | 6 |
| 8.5 Expired or cancelled qualification status..... | 6 |
| 9 Records | 6 |
| 10 Designation | 6 |
| Annex A (normative) Job knowledge | 7 |
| Annex B (normative) Specific acceptance criteria | 10 |
| Annex C (normative) Minimum tensile adhesive strength and shear load resistance values | 15 |
| Annex D (informative) Example of qualification test certificate for thermal sprayer | 18 |

ISO 14918:2018(E)

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).

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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 second edition cancels and replaces the first edition (ISO 14918:1998), which has been technically revised.

Introduction

This document examines the principles of qualification testing of sprayer performance for thermal spraying.

The quality of work involved in thermal spraying depends on the skill, operation of the spray equipment and job knowledge of the thermal sprayer.

The ability of the thermal sprayer to follow verbal and written instructions and the testing of his/her skill and operation of the spray equipment are therefore important factors in ensuring the quality of the thermally sprayed product.

This document is intended to provide the basis for mutual recognition by examining bodies for qualification relating to thermal sprayer's competence in the various fields of application. Tests can be carried out in accordance with this document, unless more severe tests are specified by the relevant application standards in which case these can be applied.

The thermal sprayer's skill and job knowledge continues to be classified as qualified as long as the thermal sprayer works with reasonable continuity on thermal spraying work within the extent of qualification.

Thermal spraying — Qualification testing of thermal sprayers

1 Scope

This document specifies procedural instructions for qualification testing of thermal sprayers. It defines requirements, ranges of qualification, test conditions, acceptance requirements and certification for qualification testing of thermal spray performance.

This document is applicable when the thermal sprayer's qualification is required by this document, the purchaser, by inspection authorities or by other organizations.

The thermal spraying processes referred to in this document include those spraying processes which are designated as manual or mechanized.

The test for mechanised application includes the use of automatically controlled thermal spraying, e.g. robotics, scan units.

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 14916, *Thermal spraying — Determination of tensile adhesive strength*

ISO 14917, *Thermal spraying — Terminology, classification*

ISO 2063-2, *Thermal spraying — Zinc, aluminium and their alloys — Part 2: Execution of corrosion protection systems*

EN 15340, *Thermal spraying — Determination of shear load resistance of thermally sprayed coatings*

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