



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 12671:2014

# Thermal spraying - Thermally sprayed coatings - Symbolic representation on drawings (ISO 12671:2012)

## I.S. EN ISO 12671:2014

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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EUROPEAN STANDARD

**EN ISO 12671**

NORME EUROPÉENNE

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Supersedes EN 14665:2004

English Version

## Thermal spraying - Thermally sprayed coatings - Symbolic representation on drawings (ISO 12671:2012)

Projection thermique - Revêtements appliqués par  
projection thermique - Représentation symbolique sur les  
dessins (ISO 12671:2012)

Thermisches Spritzen - Thermisch gespritzte Schichten -  
Symbolische Darstellung in Zeichnungen (ISO 12671:2012)

This European Standard was approved by CEN on 2 March 2014.

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## **Foreword**

The text of ISO 12671:2012 has been prepared by Technical Committee ISO/TC 107 “Metallic and other inorganic coatings” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 12671:2014 by 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of an identical text or by endorsement, at the latest by September 2014, and conflicting national standards shall be withdrawn at the latest by September 2014.

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 14665:2004.

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### **Endorsement notice**

The text of ISO 12671:2012 has been approved by CEN as EN ISO 12671:2014 without any modification.

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# INTERNATIONAL STANDARD

**ISO**  
**12671**

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2012-08-01

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## **Thermal spraying — Thermally sprayed coatings — Symbolic representation on drawings**

*Projection thermique — Revêtements appliqués par projection  
thermique — Représentation symbolique sur les dessins*



Reference number  
ISO 12671:2012(E)

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**ISO 12671:2012(E)**



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## **ISO 12671:2012(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 12671 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*.

# Thermal spraying — Thermally sprayed coatings — Symbolic representation on drawings

## 1 Scope

This International Standard specifies how the symbolic representation of thermally sprayed coatings has to be indicated on drawings.

## 2 Normative references

The following referenced documents are indispensable for the application 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 14232:2000, *Thermal spraying — Powders — Composition and technical supply conditions*

ISO 14919:2001, *Thermal spraying — Wires, rods and cords for flame and arc spraying — Classification — Technical supply conditions*

## 3 General

Coatings may be indicated with the general recommendations for technical drawings. To apply this symbolic representation will make sense in cases, where the thermally sprayed coating is very thin and/or may be built up by several dissimilar coatings one upon another.

The symbolic representation shall give clearly all necessary indications regarding the specific coating to be obtained without over-burdening the drawing with notes or showing an additional view or detail enlargement.

This symbolic representation includes an elementary symbol and one or more supplementary symbols and further complementary indications.

If a large number of instructions for producing the coating have to be mentioned, it is recommended to indicate the specific instructions on the drawing or to define them in a separate parts list, if applicable (see Figures 6 and 7).

## 4 Symbols

The elementary symbol shall indicate that this process deals with thermal spraying.

The following information shall be given by supplementary symbols:

- type of coating (bond or top coat);
- the spraying process and subsequent treatments.

The following requirements may be defined by further additional instructions:

- the coating thickness needed or the final coating thickness machined, respectively;
- the spray material to be used;
- surface condition;
- post-treatments of coating;
- a technical specification, which defines requirements necessary to complete the coating.

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