



SLOVENSKI STANDARD
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Microstructure of cast irons - Part 1: Graphite classification by visual analysis (ISO 945-1:2008)

Bezeichnung der Mikrostruktur von Gusseisen - Teil 1: Graphitklassifizierung durch visuelle Auswertung (ISO 945-1:2008)

Microstructure des fontes - Partie 1: Classification du graphite par analyse visuelle (ISO 945-1:2008)

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Ta slovenski standard je istoveten z: EN ISO 945-1:2008

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77.080.10 Železo Irons

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NORME EUROPÉENNE
EUROPÄISCHE NORM

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English Version

Microstructure of cast irons - Part 1: Graphite classification by visual analysis (ISO 945-1:2008)

Microstructure des fontes - Partie 1: Classification du graphite par analyse visuelle (ISO 945-1:2008)

Mikrostruktur von Gusseisen - Teil 1: Graphitklassifizierung durch visuelle Auswertung (ISO 945-1:2008)

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 945-1:2008) has been prepared by Technical Committee ISO/TC 25 "Cast iron and pig iron" in collaboration with Technical Committee CEN/TC 190 "Foundry technology", 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of an identical text or by endorsement, at the latest by May 2009, and conflicting national standards shall be withdrawn at the latest by May 2009.

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.

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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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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STANDARD

ISO
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First edition
2008-11-15

Microstructure of cast irons —
Part 1:
Graphite classification by visual analysis

Microstructure des fontes —

Partie 1: Classification du graphite par analyse visuelle

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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 945-1 was prepared by Technical Committee ISO/TC 25, *Cast irons and pig irons*.

Together with ISO 945-2, this first edition of ISO 945-1 cancels and replaces ISO 945:1975, which has been technically revised to take into account the expanding range of cast-iron alloys available. In addition, photomicrographs have been included together with schematic images to aid classification.

ISO 945 consists of the following parts, under the general title *Microstructure of cast irons*:

- *Part 1: Graphite classification by visual analysis*

Graphite classification by image analysis will be the subject of a future Part 2.

Introduction

Microstructure designation is a useful feature that provides a means of classifying the graphite form, distribution and size in cast irons.

Graphite classification by visual analysis is a well-established method which is well recognized within the foundry industry as a means of quickly determining the overall graphite microstructure of a cast-iron casting.

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