



**NSAI**  
Standards

Irish Standard  
I.S. EN 1559-3:2011

# Founding - Technical conditions of delivery - Part 3: Additional requirements for iron castings

## I.S. EN 1559-3:2011

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

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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English Version

## Founding - Technical conditions of delivery - Part 3: Additional requirements for iron castings

Fonderie - Conditions techniques de fourniture - Partie 3:  
Spécifications complémentaires pour les pièces moulées  
en fonte

Gießereiwesen - Technische Lieferbedingungen - Teil 3:  
Zusätzliche Anforderungen an Eisengussstücke

This European Standard was approved by CEN on 17 September 2011.

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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.

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## Foreword

This document (EN 1559-3:2011) has been prepared by 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of an identical text or by endorsement, at the latest by April 2012, and conflicting national standards shall be withdrawn at the latest by April 2012.

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 1559-3:1997.

Within its programme of work, Technical Committee CEN/TC 190 requested CEN/TC 190/WG 1 "Technical conditions of delivery and cast iron designation" to revise the following standard:

EN 1559-3, *Founding — Technical conditions of delivery — Part 3: Additional requirements for iron castings*

Annex C provides details of significant technical changes between this European Standard and the previous edition.

This standard is one of a series of European Standards for technical delivery conditions for castings. The other standards in this series are:

EN 1559-1, *Founding — Technical conditions of delivery — Part 1: General*

EN 1559-2, *Founding — Technical conditions of delivery — Part 2: Additional requirements for steel castings*

EN 1559-4, *Founding — Technical conditions of delivery — Part 4: Additional requirements for aluminium alloy castings*

EN 1559-5, *Founding — Technical conditions of delivery — Part 5: Additional requirements for magnesium alloy castings*

EN 1559-6, *Founding — Technical conditions of delivery — Part 6: Additional requirements for zinc alloy castings*

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, 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.

## Introduction

CEN/TC 190 "Foundry Technology" has prepared a series of material standards covering the following cast irons:

- grey cast irons [1];
- malleable cast irons [2];
- spheroidal graphite cast irons [3];
- ausferritic spheroidal graphite cast irons [4];
- abrasion resistant cast irons [5];
- austenitic cast irons [7];
- compacted (vermicular) graphite cast irons [8];
- low alloyed ferritic spheroidal graphite cast irons for elevated temperature applications [9].

In order to assist manufacturers and purchasers to prepare proper contractual arrangements and prevent misunderstanding, CEN/TC 190 approved the preparation of a series of standards covering technical delivery conditions. These have been prepared as separate parts.

This European Standard covers the additional technical delivery conditions for all the cast iron materials, e.g. optional information, manufacturing process, welding operation, additional requirements regarding the condition of the casting, test methods.

This European Standard cannot be used alone for compiling a specification for ordering and supplying iron castings, but as a complement to EN 1559-1.

The symbol ● against the clause reference indicates that the requirements of that clause of EN 1559-1 have to be met.

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