

BS EN 1560:2011



BSI Standards Publication

Founding — Designation system for cast iron — Material symbols and material numbers

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee ISE/111, Steel Castings and Forgings.

A list of organizations represented on this committee can be obtained on request to its secretary.

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ISBN 978 0 580 67229 3

ICS 77.080.10

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2011.

Amendments issued since publication

Date	Text affected
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1560

February 2011

ICS 77.080.10

Supersedes EN 1560:1997

English Version

**Founding - Designation system for cast iron - Material symbols
and material numbers**

Fonderie - Système de désignation pour la fonte -
Désignation symbolique et numérique

Gießereiwesen - Bezeichnungssystem für Gusseisen -
Werkstoffkurzzeichen und Werkstoffnummern

This European Standard was approved by CEN on 15 January 2011.

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Ref. No. EN 1560:2011: E

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Foreword

This document (EN 1560:2011) 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of an identical text or by endorsement, at the latest by August 2011, and conflicting national standards shall be withdrawn at the latest by August 2011.

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 1560:1997.

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

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 EN 1560:1997.

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

Cast iron materials can be designated either by symbols or by numbers for all grades. The material number is based on principles and the structure set out in EN 10027-2.

1 Scope

This European Standard establishes a material designation system either by symbols or by numbers for cast iron.

The designation system by symbols is applicable to:

- a) standardized cast iron materials (see 2.1);
- b) non-standardized cast iron materials (see 2.2).

The designation system by numbers is only applicable to standardized cast iron materials (see 2.1).

NOTE The use of a designation system by symbols does not necessarily imply that the material is standardized.

2 Terms and definitions

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

2.1

standardized cast iron material

cast iron material which has been specified in a European Standard

2.2

non-standardized cast iron material

cast iron material which has not been specified in a European Standard, but is manufactured and/or used in CEN member countries

3 Designation of cast iron materials by symbols

3.1 General

There shall be only one designation by symbols for each cast iron material.

3.2 Material symbol structure

3.2.1 Overall structure

The designation by symbols shall occupy a maximum of six positions. There shall be no spaces between any of the used positions.

- Position 1: EN- (see 3.2.2);
- Position 2: Symbol for cast iron (see 3.2.3);
- Position 3: Symbol for graphite structure (see 3.2.4);
- Position 4: Symbol for microstructure or macrostructure (see 3.2.5);
- Position 5: Symbol for classification either by mechanical properties or by chemical composition (see 3.2.6);
- Position 6: Symbol for additional requirements (see 3.2.7).