

## DIN EN 1563



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Supersedes  
DIN EN 1563:2012-03

**Founding –  
Spheroidal graphite cast irons;  
English version EN 1563:2018,  
English translation of DIN EN 1563:2019-04**

Gießereiwesen –  
Gusseisen mit Kugelgraphit;  
Englische Fassung EN 1563:2018,  
Englische Übersetzung von DIN EN 1563:2019-04

Fonderie –  
Fontes à graphite sphéroïdal;  
Version anglaise EN 1563:2018,  
Traduction anglaise de DIN EN 1563:2019-04

Document comprises 49 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

*A comma is used as the decimal marker.*

## **National foreword**

This document (EN 1563:2018) has been prepared by Technical Committee CEN/TC 190 “Foundry technology” (Secretariat: DIN, Germany).

The responsible German body involved in its preparation was *DIN-Normenausschuss Gießereiwesen* (DIN Standards Committee Foundry Practice), Working Committee NA 036-00-01 AA “Cast iron materials”.

### **Amendments**

This standard differs from DIN EN 1563:2012-03 as follows:

- a) the terms and definitions given in 3.3 and 3.5 have been revised;
- b) in subclause 7.2.1.2, a second paragraph has been included;
- c) in subclause 8.2.2, the second paragraph has been revised;
- d) in subclause 9.1, Figure 5, “Rz” has been added;
- e) subclause 10.3 has been revised;
- f) in subclause A.2.1, Table A.1 has been revised;
- g) subclause A.2.3 has been revised;
- h) the former subclause A.3.1 has been deleted;
- i) the key to Figure A.1 has been extended;
- j) Figures A.2 and A.3 have been deleted;
- k) subclause C.5 has been deleted;
- l) in Table E.1, the lines “Fatigue limit (unnotched)”, “Fatigue limit (notched)”, “Fracture toughness” have been deleted and footnotes have been revised;
- m) Table E.2 has been included;
- n) the former Annex F has been revised and included as Annex H;
- o) the former Annex G has been included as Annex F;
- p) the former Annex H has been included as Annex G;
- q) the former Annex I “Un-notched impact test” has been deleted;
- r) Annex I “Significant technical changes between this European Standard and the 2011 edition” has been included;
- s) Annex ZA has been revised with regard to the Pressure Equipment Directive 2014/68/EU.

### **Previous editions**

DIN 1693: 1961-09

DIN 1693-1: 1973-10

DIN 1693-2: 1977-10

DIN EN 1563: 1997-08, 2002-08, 2003-02, 2005-10, 2012-03

English Version

## Founding - Spheroidal graphite cast irons

Fonderie - Fontes à graphite sphéroïdal

Gießereiwesen - Gusseisen mit Kugelgraphit

This European Standard was approved by CEN on 9 April 2018.

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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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## **European foreword**

This document (EN 1563:2018) 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 February 2019 and conflicting national standards shall be withdrawn at the latest by February 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1563:2011.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive 2014/68/EU, see informative Annex ZA, which is an integral part of this document.

Within its programme of work, Technical Committee CEN/TC 190 requested CEN/TC 190/WG 7 “Spheroidal graphite, silicon molybdenum and austempered ductile iron” to revise EN 1563:2011.

Annex I provides details of significant technical changes between this European Standard and the 2011 edition (previous edition).

Annex J provides details of significant technical changes between the 1997 edition and the 2011 edition.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.