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BS EN 1559-2:2014



BSI Standards Publication

Founding — Technical conditions of delivery

Part 2: Additional requirements for steel
castings

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This British Standard is the UK implementation of EN 1559-2:2014. It supersedes BS EN 1559-2:2000 which is withdrawn.

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.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Spécifications complémentaires pour les pièces moulées en
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Gießereiwesen - Technische Lieferbedingungen - Teil 2:
Zusätzliche Anforderungen an Stahlgussstücke

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CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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 1559-2:2014) has been prepared by Technical Committee ECISS/TC 111 "Steel castings and forgings", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by April 2015 and conflicting national standards shall be withdrawn at the latest by April 2015.

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 1559-2:2000.

Within its programme of work, Technical Committee ECISS/TC 111 included the revision of the following standard:

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

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

This European 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 1559-3, *Founding - Technical conditions of delivery - Part 3: Additional requirements for iron castings*;
- EN 1559-4, *Founding - Technical conditions of delivery - Part 4: Additional requirements for aluminium castings*;
- EN 1559-5, *Founding - Technical conditions of delivery - Part 5: Additional requirements for magnesium castings*;
- EN 1559-6, *Founding - Technical conditions of delivery - Part 6: Additional requirements for zinc 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

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 steel casting materials and has the same structure for clauses as EN 1559-1 "*Founding - Technical conditions of delivery – Part 1: General*".

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

The structure of this European Standard is as follows:

- clauses and subclauses preceded by ■ indicate no additional conditions to EN 1559-1:2011;
- clauses and subclauses marked with a single dot • indicate that conditions shall be agreed at the time of enquiry and order;
- subclauses and paragraphs marked with two dots •• indicate that conditions can be agreed at the time of enquiry and order (optional);
- subclauses without dot marking are mandatory.

Annex A gives a checklist for quick information about different points that shall or may be agreed by the time of acceptance of the order. It relates to the applicable clauses or subclauses of EN 1559-1:2011 and EN 1559-2:2014.

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1 Scope

This part of EN 1559 specifies the additional technical delivery conditions for steel castings unless other conditions have been agreed at the time of enquiry and order.

This European Standard is also applicable to nickel and cobalt alloy castings.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1369, *Founding - Magnetic particle testing*

EN 1370, *Founding - Examination of surface condition*

EN 1371-1, *Founding - Liquid penetrant testing - Part 1: Sand, gravity die and low pressure die castings*

EN 1371-2, *Founding - Liquid penetrant inspection - Part 2: Investment castings*

EN 1559-1:2011, *Founding - Technical conditions of delivery - Part 1: General*

EN 10027-1, *Designation systems for steels - Part 1: Steel names*

EN 10027-2, *Designation systems for steels - Part 2: Numerical system*

EN 12680-1, *Founding - Ultrasonic examination - Part 1: Steel castings for general purposes*

EN 12680-2, *Founding - Ultrasonic examination - Part 2: Steel castings for highly stressed components*

EN 12681, *Founding - Radiographic examination*

EN 13018, *Non-destructive testing - Visual testing - General principles*

EN 14784-1, *Non-destructive testing - Industrial computed radiography with storage phosphor imaging plates - Part 1: Classification of systems*

EN 14784-2, *Non-destructive testing - Industrial computed radiography with storage phosphor imaging plates - Part 2: General principles for testing of metallic materials using X-rays and gamma rays*

EN ISO 148-1, *Metallic materials - Charpy pendulum impact test - Part 1: Test method (ISO 148-1)*

EN ISO 3452-1, *Non-destructive testing - Penetrant testing - Part 1: General principles (ISO 3452-1)*

EN ISO 3651-1, *Determination of resistance to intergranular corrosion of stainless steels - Part 1: Austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in nitric acid medium by measurement of loss in mass (Huey test) (ISO 3651-1)*

EN ISO 3651-2, *Determination of resistance to intergranular corrosion of stainless steels - Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in media containing sulfuric acid (ISO 3651-2)*