

AS 4738.1—2004
(Incorporating Amendment No. 1)

AS 4738.1—2004

Australian Standard™

Metal castings

Part 1: Ferrous sand moulded

This Australian Standard was prepared by Committee MT-001, Iron and Steel. It was approved on behalf of the Council of Standards Australia on 3 December 2003. This Standard was published on 24 February 2004.

The following are represented on Committee MT-001:

Australian Institute of Steel Construction
Australian Chamber of Commerce and Industry
Australian Industry Group
Australasian Railway Association
Australian Building Codes Board
Australian Foundry Institute
Bureau of Steel Manufacturers of Australia
Institute of Materials Engineering Australia

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-001, Iron and Steel. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (April 2005). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of the Standard is to specify the general technical delivery requirements for iron and steel castings, including the requirements for the preparation of samples and test pieces.

When material or product Standards differ from this general delivery specification, the materials or product Standards apply. In special cases, variations from these conditions may be agreed upon at the time of order.

This Standard also specifies a group of supplementary requirements, which may be applied to iron and steel castings. These requirements are provided for use when additional testing of inspection is desired, and are applied only when individually specified by the purchaser.

During the preparation of this Standard, cognizance was taken of the following International Standards:

ISO

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|-------|--|
| 1302 | Geometrical Product Specification (GPS)—Indication of surface texture in technical product documentation |
| 4990 | Steel castings—General technical delivery requirements |
| 8062 | Castings—Systems of dimensional tolerances and machining allowances |
| 10135 | Technical drawings—Simplified representation of moulded, cast and forged parts |
| 11971 | Visual examination of surface quality of steel castings |

This Standard is one of a series of Standards covering the range of cast irons and steels. The series comprises the following:

AS

- | | |
|------|---|
| 1830 | Grey cast iron |
| 1831 | Ductile cast iron |
| 1832 | Malleable cast iron |
| 1833 | Austenitic cast iron |
| 2027 | Wear-resistant white cast iron |
| 2074 | Cast steels |
| 4314 | Metal castings—Patterns, pattern equipment and coreboxes for the production of sand moulds and sand cores |
| 4738 | Metal castings—Ferrous sand moulded (this Standard) |
| 5049 | Cast iron—Designation of microstructure of graphite |

The terms ‘normative’ and ‘informative’ have been used in this standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a standard, where an ‘informative’ appendix is only information and guidance.

Statements expressed in mandatory terms in footnotes to tables are deemed to be requirements of this Standard.

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