

Specification for

Abrasion resisting white cast iron

UDC 669.13.018.256

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Iron and Steel Standards Committee (ISM/-) to Technical Committee ISM/35, upon which the following bodies were represented:

- BCIRA
- British Engine Group of SMMT
- British Foundry Association
- British Gear Manufacturers Association
- British Malleable Tube Fittings Association
- British Steel Industry
- British Valve Manufacturers Association Ltd
- Energy Industries Council
- Institution of Mechanical Engineers
- Meehanite Institute of Great Britain
- Metal Trades Organizations
- National Association of Malleable Ironfounders
- Society of Motor Manufacturers and Traders Limited

The following bodies were also represented in the drafting of the standard, through sub-committees and panels:

- Cement Makers' Federation
- Electricity Supply Industry in England and Wales
- Institute of British Foundrymen
- Steel Casting Research and Trade Association

This British Standard, having been prepared under the direction of the Iron and Steel Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 May 1986

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BS 4844-1 first published June 1974
BS 4844-2 first published August 1972
BS 4844-3 first published June 1974
Combined first revision May 1986

The following BSI references relate to the work on this standard:
Committee reference ISM/35
Draft for comment 84/42187 DC

ISBN 0 580 14854 8

Amendments issued since publication

Amd. No.	Date of issue	Comments

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Foreword

This British Standard has been prepared under the direction of the Iron and Steel Standards Committee and supersedes BS 4844-1, BS 4844-2 and BS 4844-3, which are withdrawn. This standard combines the three Parts of the previous edition into one for abrasion resisting white cast iron, and specifies requirements for three types of white cast iron used in the manufacture of abrasion resisting castings. No alterations have been made to the general requirements for the three types of material or to the specific requirements and grade designations for the unalloyed and nickel-chromium materials compared with the previous editions. In the case of the high chromium material, two additional grades have been included and small changes made to the specified compositions of some of the other grades. These changes reflect developments in manufacturing and user requirements that have occurred since the publication of the previous editions.

In revising this British Standard, the committee considered a revision specifying material requirements only, in line with the general trend in international standards and other national cast iron specifications for the standardization of materials, not castings. However, it was also necessary to have as a specified part of this standard the need for hardness to be tested on the casting, and therefore this revised specification includes both material and product requirements as they relate to chemical composition and hardness respectively. Further details of the technical changes in the revision are highlighted in the introduction.

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Summary of pages

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This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.