

Specification for blastfurnace cements with strength properties outside the scope of BS EN 197-1

ICS 91.100.10

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee B/516, Cement and lime, upon which the following bodies were represented:

- British Cement Association
- British Precast Concrete Federation Ltd.
- Cement Admixtures Association
- Cementitious Slag Makers Association
- County Surveyors Society
- Department of the Environment, Transport and the Regions — Building Research Establishment
- Department of the Environment, Transport and the Regions — Highways Agency
- Environment Agency
- Mortar Industry Association
- Quarry Products Association
- Society of Chemical Industry
- UK Quality Ash Association

The following body was also represented in the drafting of the standard, through Subcommittee B/516/6, Cement specifications:

Electricity Association

This British Standard, having been prepared under the direction of the Building and Civil Engineering Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 20 March 2002

© BSI 20 March 2002

- First published May 1923
- Second edition July 1926
- Third edition June 1932
- Fourth edition September 1941
- Fifth edition November 1947
- Sixth edition March 1958
- Seventh edition October 1973
- Eighth edition November 1991
- Ninth edition June 1996
- Tenth edition 20 March 2002

The following BSI references relate to the work on this British Standard:
Committee reference B/516
Draft for comment 01/100771 DC

ISBN 0 580 39238 4

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Cement	1
5 Constituents	1
6 Composition, notation and manufacture	1
7 Compressive strength	2
8 Physical properties	2
9 Chemical properties	2
10 Conformity criteria	3
11 Marking	3
12 Information to be provided	4
Annex A (informative) Product guidance	5
Bibliography	7
Table 1 — Composition	1
Table 2 — Compressive strength	2
Table 3 — Chemical properties	2
Table 4 — Limit values	3

Foreword

This British Standard has been prepared by Technical Subcommittee B/516/6. It supersedes BS 146:1996 and BS 4246:1996, which are withdrawn.

This revision of BS 146:1996 has been published as a consequence of the publication of BS EN 197-1, which implements in the UK the harmonised European Standard EN 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements*. BS EN 197-1 covers many of the common cements used in the UK and, following a transition period lasting until April 2002, conflicting British Standards will be withdrawn. However, BS EN 197-1 does not include in its scope the low early strength classes of Portland blastfurnace cements specified in the previous edition of this standard or the high slag blastfurnace cement previously specified in BS 4246.

This standard covers those blastfurnace slag cements that conformed either to the previous edition of this standard or to BS 4246 but remain outside the scope of BS EN 197-1.

The requirements in this standard for composition and for physical and chemical properties are within the ranges permitted by BS EN 197-1. The requirements for early strength differ. As a consequence, for a given standard strength class, cements conforming to this standard will have a lower early strength but a greater gain of strength between early age and 28 days when compared to similar cements conforming to BS EN 197-1.

Product certification. Users of this British Standard are advised to consider the desirability of third-party certification testing of product conformity with this British Standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 7 and a back cover.

The BSI copyright notice displayed in this document indicates the most recent changes by amendment.