

CONFIRMED
MAY 1988

Specification for

Sprayed unfused metal coatings for engineering purposes

Confirmed
February 2011

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Co-operating organizations

The Surface Coatings (other than Paints) Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

- Aluminium Federation*
- Assay Offices Committee of Great Britain
- Association of Metal Sprayers*
- British Bolt, Nut, Screw and Rivet Federation
- British Electrical and Allied Manufacturers' Association
- British Jewellers' Association
- British Non-ferrous Metals Research Association*
- British Steel Industry*
- Chemical Industries Association
- Cycle and Motor Cycle Association limited
- Department of Trade and Industry*
- Electricity Council, the Central Electricity Generating Board and Area Boards in England and Wales*
- Electronic Engineering Association*
- Greater London Council
- Institute of Metal Finishing*
- Institute of Sheet Metal Engineers
- Institute of Vitreous Enamellers
- Metal Finishing Association
- Ministry of Defence, Army Department*
- Ministry of Defence, Navy Department
- Society of Motor Manufacturers and Traders Limited*
- Tin Research Institute
- Vitreous Enamel Development Council
- Zinc Development Association*

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

- British Constructional Steelwork Association
- British Railways Board
- Institution of Civil Engineers
- Institution of Mechanical Engineers
- Institution of Structural Engineers
- Lloyds Register of Shipping
- London Transport Executive
- Shipbuilders' and Repairers' National Federation
- Society of British Aerospace Companies
- Welding Institute
- Individual firms

This British Standard, having been approved by the Surface Coatings (other than Paints) Industry Standards Committee, was published under the authority of the Executive Board on 18 August 1971

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The following BSI references relate to the work on this standard:
Committee references
SRE/6 SRE/6/3
Draft for comment 69/35079

ISBN 580 06574 X

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Co-operating organizations	Inside front cover
Foreword	ii
1 Scope	1
2 Design considerations	1
3 Information to be supplied to the metal sprayer	1
4 Preparation of components	1
5 Spraying	3
6 Inspection after spraying	4
7 Sealing	4
8 Finishing	4
9 Final inspection	4
Appendix A Method of preparation of a reference surface for comparison	5
Appendix B Bond coating materials	5
Figure 1 — Preparation and finishing of sprayed deposits at fillets	6
Figure 2 — Preparation and finishing of sprayed deposits at oilways	7

Foreword

In order to keep abreast of progress in the industries concerned, British Standards are subject to periodical review. Suggestions for improvements will be recorded and in due course brought to the notice of the committees charged with the revision of the standards to which they refer.

A complete list of British Standards, numbering over 5 000, fully indexed and with a note of the contents of each, will be found in the British Standards Yearbook, which may be purchased from BSI Sales Department. The BS Yearbook may be consulted in many public libraries and similar institutions.

This standard makes reference to the following British Standards:

BS 410, *Test sieves*.

BS 427, *Method for Vickers hardness test*.

BS 2451, *Chilled iron shot and grit*.

BS 2569, *Sprayed metal coatings*.

BS 2569-1, *Protection of iron and steel by aluminium and zinc against atmospheric corrosion*.

BS 2569-2, *Protection of iron and steel against corrosion and oxidation at elevated temperatures*.

BS 4495, *Recommendations for the flame spraying of ceramic and cermet coatings*.

BS, *Sprayed and fused metal coatings for engineering purposes. (In course of preparation.)*.

This British Standard, prepared under the authority of the Surface Coatings (other than Paints) Industry Standards Committee, relates to the use of sprayed, unfused coatings of metals and metallic compounds in engineering applications, e.g. the reclamation of worn or over-machined components, and the treatment of new components, where such properties as wear-resistance, low coefficient of friction and load-bearing characteristics are important. BS ¹⁾ covers the requirements for sprayed metals and metallic compounds which are fused after spraying. Of the other standards in this series, BS 2569-1²⁾ deals with the use of sprayed aluminium and zinc coatings for the protection of iron and steel against atmospheric corrosion, BS 2569-2²⁾ covers sprayed aluminium, aluminium alloy and nickel-chromium alloys against high temperature oxidation and BS 4495³⁾ gives recommendations for the flame spraying of ceramic, cermet and related coatings for a wide range of protective and engineering applications.

NOTE This standard is expressed in metric terms. For further information reference should be made to BS 3763, "International System (SI) units", and PD 5686, "The use of SI units".

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.

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.

¹⁾ BS, "Sprayed and fused metal coatings for engineering purposes", (in course of preparation).

²⁾ BS 2569, "Sprayed metal coatings", Part 1, "Protection of iron and steel by aluminium and zinc against atmospheric corrosion", Part 2, "Protection of iron and steel against corrosion and oxidation at elevated temperatures".

³⁾ BS 4495, "Recommendations for the flame spraying of ceramic and cermet coatings".