

Doping and finishing schemes for fabric covered aircraft

ICS: 49.040

Committees responsible for this British Standard

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- British Coatings Federation Ltd.
- Ministry of Defence
- Oil & Colour Chemists' Association
- Society of British Aerospace Companies Ltd.

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Foreword

This British Standard is one of a series for paints and varnishes for aerospace purposes. It specifies the requirements for painting and doping schemes for aerospace purposes. It is a revision of BS X 26:1966 which is superseded and withdrawn. During its preparation the layout has been aligned with other BS X series standards and references have been revised.

It has been assumed in the drafting of this specification that the execution of its provisions is entrusted to appropriately qualified and experienced people.

The Quality Assurance Authority and Approving Authority referred to in this Specification are as stated in the contract or order, or the accredited representative of the authority stated, as instructed by the purchaser.

WARNING. This British Standard calls for the use of substances and/or procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and in no way absolves either the designer, producer, supplier or user from statutory obligations relating to health and safety at any stage of manufacture or use.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

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1 Scope

This British Standard specifies the requirements for doping schemes of low, medium and high tautness, together with matt and glossy finishes, for aerospace purposes.

These schemes provide methods of producing and maintaining on aircraft fabrics taut, water-proof and air-proof surfaces and also provides methods of protecting the fabrics from the deteriorative effects of light, weather and normal service conditions.

Annex F gives details of requirements for type approval.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of this British Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the publication referred to applies.

BS 318 C, *Specification for colours for identification, coding and special purposes*.

BS 2015, *Glossary of paint and related terms*.

BS 3900, *Methods of test for paints*.

BS 3900: Group A, *Tests on liquid paints (excluding chemical tests)*.

BS 3900-A1, *Sampling*.

BS 3900-A2, *Examination and preparation of samples for testing*.

BS 3900: Group B, *Test involving chemical examination of liquid paints and dried paint films*.

BS 3900-B18, *Determination of non-volatile matter of paints, varnishes and binders for paints and varnishes*.

BS 3900: Group D, *Optical tests on paint films*.

BS 3900-D1, *Visual comparison of the colour of paints*.

BS 3900-D5, *Measurement of the specular gloss of non-metallic paint films at 20°, 60° and 85°*.

BS 3900: Group F, *Durability tests on paint films*.

BS 3900-F6, *Notes for guidance on the conduct of natural weathering test*.

BS 9F 1, *Specification for 140g/m² linen (flax) fabric and serrated edge strip for aerospace purposes*.

BS L 163, *Specification for sheet and strip of aluminium coated aluminium-copper-magnesium-silicon-manganese alloy (solution treated, cold-worked for flattening and aged at room temperature)*.

BS EN 23270, *Specification for temperatures and humidities for conditioning and testing paints, varnishes and their raw materials*.

BS EN ISO 1514, *Paints and varnishes. Standard panels for testing*.

BS EN ISO 1519, *Paints and varnishes. Bend test (cylindrical mandrel)*.

ASTM D 3960, *Standard practice for determining volatile organic compound (VOC) content of paints and related coatings*.

Def. Stan 80-38¹⁾, *Thinners for paint epoxy two pack, cellulose nitrate paints, dopes, and lacquers*.

Def. Stan. 80-180¹⁾, *Cellulose nitrate for lacquers (Propan-2-ol damped)*.

3 Definitions

For the purposes of this British Standard the definitions given in BS 2015 apply.

¹⁾ Obtainable from: Ministry of Defence, Directorate of Standardization, Kentigern House, 65 Brown Street, Glasgow G2 8EX