

BS 2X 32:1998+A2:2020



BSI Standards Publication

**Specification for pre-treatment etch
primer for aerospace purposes**

bsi.

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Published by BSI Standards Limited 2020

ISBN 978 0 39 04243 6

ICS 49 040

The following BSI references relate to the work on this document:

Committee reference ACE/65

Drafts for comment 96/705058 DC; 19/30392931 DC

Amendments/corrigenda issued since publication

Date	Text affected
February 2006	Amendments to Table 1 and Table 2
March 2020	A2: See Foreword

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 15 April 1998. It was prepared by Technical Committee ACE/65, *Non-metallic materials for aerospace purposes*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

BS 2X 32:1998+A2:2020 supersedes BS 2X 32:1998, which is withdrawn.

BS 2X 32:1998 superseded BS X 32:1991, which has been withdrawn.

Relationship with other publications

This British Standard specifies requirements for a two pack pretreatment etch primer that can be used with British Standard X series primer and/or finishing schemes.

Information about this document

The start and finish of text introduced or altered by Amendments No. 1 and No. 2 is indicated in the text by tags **A1** **A1** and **A2** **A2**. Minor editorial changes are not tagged.

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Hazard warnings

WARNING. This British Standard calls for the use of substances and/or procedures that can be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

A2 CAUTION. This British Standard requires the use of a controlled hazardous substance [a Chromium (VI) compound] that has restrictions on its use and supply due to EU (REACH) and/or UK regulations. The user of this standard needs to take full responsibility, including due diligence up and down the supply chain, to ensure that the preparation and use of formulations containing this hazardous substance is carried out in compliance with all applicable legislation. This might include the permitted scope of the use of the substance (authorization procedures), control measures to ensure safe use, and the paint application conditions. **A2**

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

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This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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1 Scope

A2 This British Standard specifies requirements for the materials and performance of a water-resistant, two pack pretreatment etch primer for aerospace applications, including specific reference to the use of two Chromium (VI) substances (see [4.1.2](#)). **A2**

The pretreatment etch primer is for use on metallic substrates to provide adhesion for an anti-corrosive primer and finishing scheme.

Information on application for type approval is provided in [Annex A](#).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions of this document¹⁾. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Standards publications

BS 282, 389:1963, *Specification for lead chromes and zinc chromes for primers*

BS 2015, *Glossary of paint and related terms*

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

BS 3900: Part A2:1993, *Examination and preparation of samples for testing*

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

BS 3900: Part D1:1978, *Visual comparison of the colour of paints*

BS 3900: Part D5:1995, *Measurement of specular gloss of non-metallic paint films at 20°, 60° and 85°*

BS 3900: Group E, *Mechanical tests on paint films*

BS 3900: Part E6:1992, *Cross cut test*

BS 3900: Group G, *Environmental tests on paint films (including tests for resistance to corrosion and chemicals)*

BS 3900: Group G5:1991, *Determination of resistance to liquids — General methods*

BS L 163:1978, *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) (Cu 4.4, Mg 0.5, Si 0.6, Mn 0.8)*

BS X 33, *Specification for two component epoxy primer for aerospace purposes*

BS X 34, *Specification for two component polyurethane finish for aerospace purposes*

BS EN 605, *Paints and varnishes — Standard panels for testing*

BS EN 12334, *Chromic-sulphuric acid pickle of aluminium and aluminium alloys*

BS EN 3665, *Test methods for paints and varnishes — Filiform corrosion resistance test on aluminium alloys*

BS EN 21512, *Methods of test for paints — Sampling*

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

¹⁾ Documents that are referred to solely in an informative manner are listed in the Bibliography.