

Irish Standard I.S. EN 2002-16:2019&LC:2019

Aerospace series - Metallic materials -Test methods - Part 16: Non-destructive testing - Penetrant testing

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National Foreword

I.S. EN 2002-16:2019&LC:2019 is the adopted Irish version of the European Document EN 2002-16:2019, Aerospace series - Metallic materials - Test methods - Part 16: Non-destructive testing - Penetrant testing

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Correction Notice

Reference: EN 2002-16:2019

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Please include the following minor editorial correction(s) in the document related to:

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It has been brought to our attention that this document, issued on 2019-11-27, requires modification.

The headers were not changed after the formal vote and still read "FprEN 2002-16:2018".

The headers were corrected to "EN 2002-16:2019".

Please find enclosed the updated English version.

We apologise for any inconvenience this may cause.

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EUROPEAN STANDARD NORME EUROPÉENNE

EN 2002-16

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November 2019

ICS 49.025.05; 49.025.15

English Version

Aerospace series - Metallic materials - Test methods - Part 16: Non-destructive testing - Penetrant testing

Série aérospatiale - Matériaux métalliques - Méthodes d'essais - Partie 16 : Essais non destructifs - Examen par ressuage Luft- und Raumfahrt - Metallische Werkstoffe -Prüfverfahren - Teil 16: Zerstörungsfreie Prüfung -Eindringprüfung

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EN 2002-16:2019 (E)

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Annex A (informative) Relative spectral response of the human eye		

European foreword

This document (EN 2002-16:2019) has been prepared by the Aerospace and Defence Industries Association of Europe — Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2020, and conflicting national standards shall be withdrawn at the latest by May 2020.

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Introduction

This document is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

1 Scope

This document specifies the requirements for penetrant testing of metallic materials for aerospace applications. It is limited to the direction of surface-breaking defects, e.g. cracks, laps, seams and inclusions.

It shall be applied when referred to in the EN technical specification or material standard unless otherwise specified on the drawing, order or inspection schedule.

2 Normative references

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

EN 1330-1, Non destructive testing — Terminology — Part 1: List of general terms

EN 1330-2, Non-destructive testing — Terminology — Part 2: Terms common to the non-destructive testing methods

EN 4179, Aerospace series — Qualification and approval of personnel for non-destructive testing

EN 4258, Aerospace series — Metallic materials — General organization of standardization — Links between types of EN standards and their use

EN 4259, Aerospace series — Metallic materials — Definition of general terms 1

EN ISO 3059, Non-destructive testing — Penetrant testing and magnetic particle testing — Viewing conditions

EN ISO 12706, Non-destructive testing — Penetrant testing — Vocabulary

ISO 3452-1, Non-destructive testing — Penetrant testing — Part 1: General principles ²

ISO 3452-2, Non-destructive testing — Penetrant testing — Part 2: Testing of penetrant materials ²

ISO 3452-3, Non-destructive testing — Penetrant testing — Part 3: Reference test blocks ²

ISO 3452-4, Non-destructive testing — Penetrant testing — Part 4: Equipment ²

ASTM E433-71, Standard Reference Photographs for Liquid Penetrant Inspection ³

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 4259 apply.

¹ Published as ASD-STAN Standard at the date of publication of this standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN) (http://www.asd-stan.org/).

² Published by: ISO International Organization for Standardization http://www.iso.ch/

³ Published by: American Society for Testing and Materials (ASTM), 1916 Race St., Philadelphia, PA 19103.



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