



NSAI
Standards

Irish Standard
I.S. EN 4426:2020

Aerospace series - Non-metallic materials -
Textiles - Test method - Determination
of conductivity and pH of aqueous
extracts

I.S. EN 4426:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 4426:2020 is the adopted Irish version of the European Document EN 4426:2020, Aerospace series - Non-metallic materials - Textiles - Test method - Determination of conductivity and pH of aqueous extracts

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EUROPEAN STANDARD

EN 4426

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2020

ICS 49.025.60

English Version

Aerospace series - Non-metallic materials - Textiles - Test method - Determination of conductivity and pH of aqueous extracts

Série aérospatiale - Matériaux non-métalliques - Textiles - Méthode d'essai - Détermination de la conductivité et du pH des extraits aqueux

Luft- und Raumfahrt - Nichtmetallische Werkstoffe - Textilien - Prüfverfahren - Bestimmung der Leitfähigkeit und des pH-Werts in wässrigen Lösungen

This European Standard was approved by CEN on 8 December 2019.

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European foreword

This document (EN 4426:2020) 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of an identical text or by endorsement, at the latest by August 2020, and conflicting national standards shall be withdrawn at the latest by August 2020.

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EN 4426:2020 (E)

Introduction

This document is part of the series of EN non-metallic materials standards for aerospace applications. The general organization of this series is described in EN 4385. This document is a level 3 document as defined in EN 4385.

1 Scope

This document specifies the requirements for the determination of conductivity and pH of aqueous extracts of textile materials.

This method has been written in response to an aerospace requirement for a method of extraction using hot water as the EN 1413 requires only a cold water extraction method.

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 1413, *Textiles — Determination of pH of the aqueous extract* ¹⁾

EN 4385, *Aerospace series — Non-metallic materials — General organisation of standardization — Links between types of standards* ²⁾

EN ISO 2231, *Rubber — or plastics-coated fabrics — Standard atmospheres for conditioning and testing* ³⁾

ISO 383, *Laboratory glassware — Interchangeable conical ground joints* ³⁾

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

conductivity

reciprocal of the resistance of an electric current to pass through an electrolyte; the purer the electrolyte the higher the electrical resistance, conversely the lower the conductivity

3.2

pH

cologarithm of the hydrogen ion concentration in an aqueous extract

4 Health, safety and environment

This document does not necessarily include all health and safety requirements associated with its use.

1) This document has been withdrawn in May 2006.

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

3) Published by International Organization for Standardization (ISO), <http://www.iso.ch/>

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