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Nederlandse norm

NEN-EN 2899

(en)

Aerospace series - Vulcanized rubbers - Test on the susceptibility to corrosion in a damp atmosphere of metals in contact with vulcanized rubbers

ICS 49.025.40
mei 2018

Als Nederlandse norm is aanvaard:
 - EN 2899:2018,IDT

Preview

Normcommissie 345030 'Luchtvaart' / 'ruimtevaart'



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EUROPEAN STANDARD

EN 2899

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2018

ICS 49.025.40

English Version

Aerospace series - Vulcanized rubbers - Test on the susceptibility to corrosion in a damp atmosphere of metals in contact with vulcanized rubbers

Série aérospatiale - Élastomères vulcanisés - Essais de sensibilité à la corrosion en atmosphère humide des métaux au contact des élastomères vulcanisés

Luft- und Raumfahrt - Vulkanisierte Elastomere - Prüfung der Korrosionsempfindlichkeit in Feuchtklima von Metallen bei Berührung mit vulkanisierten Elastomeren

This European Standard was approved by CEN on 17 December 2017.

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Contents

Page

European foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions.....	4
4 Principle.....	4
5 Apparatus and auxiliary products.....	5
6 Specimens.....	5
7 Test conditions.....	6
8 Procedure.....	6
9 Interpretation of results.....	7
10 Designation.....	7
11 Test report.....	8

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European foreword

This document (EN 2899:2018) 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of an identical text or by endorsement, at the latest by November 2018, and conflicting national standards shall be withdrawn at the latest by November 2018.

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1 Scope

This document defines tests on the susceptibility to corrosion in a damp atmosphere of metals in contact with vulcanized rubbers.

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 2071, *Aerospace series — Sheets in aluminium and aluminium alloys — Thickness $0,25 \text{ mm} \leq a \leq 6 \text{ mm}$ — Dimensions*

EN 22171, *Steel FE-PL52 S — $1\ 080 \text{ MPa} \leq R_m \leq 1\ 250 \text{ MPa}$ — Sheets and plates $2 \text{ mm} \leq a \leq 20 \text{ mm}$ — Aerospace series²*

EN 2395, *Aerospace series — Aluminium alloy AL-P2014A — T4 or T42 — Sheet and strip — $0,4 \text{ mm} \leq a \leq 6 \text{ mm}$*

EN 3525, *Aerospace series — Steel FE-PL1505 (15CrMoV6) — Air melted — Hardened and tempered — Plate — $6 \text{ mm} < a \leq 20 \text{ mm}$ — $1\ 080 \text{ MPa} \leq R_m \leq 1\ 280 \text{ MPa}$*

ISO 23529, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*

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:

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

3.1 contact corrosion

the visually perceptible deterioration of the metal surface in contact with rubbers, after exposure in a damp atmosphere

4 Principle

The rubber test pieces shall be directly placed after immersion in the test fluid between two test metal disks and exposed to a damp atmosphere under defined conditions. After exposure, the metal disks shall be visually examined so that deterioration due to corrosion can be noted.

¹ Inactive for new design, see EN 3525.

² Published as ASD-STAN Standard at the date of publication of this European Standard by AeroSpace and Defence industries Association of Europe - Standardization (ASD-STAN) (www.asd-stan.org).

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