SLOVENSKI STANDARD
SIST EN 3847:2019

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Aeronavtika - Barve in laki - Določevanje vrednosti sedimentacije

Aerospace series - Paints and varnishes - Determination of sedimentation rating

Luft- und Raumfahrt - Lacke und Anstrichstoffe - Bestimmung der Verlandungszahl

Série aérospatiale - Peinture et vernis - Détermination de l'indice de sédimentation

Ta slovenski standard je istoveten z: **EN 3847:2019**

ICS:

49.040	Prevleke in z njimi povezani postopki, ki se uporabljajo v letalski in vesoljski industriji	Coatings and related processes used in aerospace industry
87.040	Barve in laki	Paints and varnishes

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English Version

Aerospace series - Paints and varnishes - Determination of sedimentation rating

Série aérospatiale - Peinture et vernis - Détermination de l'indice de sédimentation

Luft- und Raumfahrt - Lacke und Anstrichstoffe - Bestimmung der Verlandungszahl

This European Standard was approved by CEN on 14 July 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 3847:2019) 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of an identical text or by endorsement, at the latest by March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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1 Scope

This document specifies the method of test for evaluating the tendency of paints and varnishes towards sedimentation of their pigments.

The procedure describes a method where the pigmented paint is allowed to settle at a specified temperature and for a specified time.

The procedure is not applicable to products which possess a pot life inferior to the specified measuring time.

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.

ISO 2431, *Paints and varnishes — Determination of flow time by use of flow cups*

3 Terms and definitions

No terms and definitions are listed in this document.

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/

4 Principle

Leave the paints to settle (at their consistency for use in the case of a mixture) at a specified temperature and for a specified time.

5 Apparatus

— apparatus specified in ISO 2431;

— 100 ml measuring cylinder. The distance between the reference lines 0 ml and 100 ml shall be approximately 18 cm;

— stopper;

— enclosure regulated at (23 ± 2) °C.

6 Preparation of the test material

6.1 Sampling

The paint containers, base, activator and thinners, shall be thoroughly homogenised prior to any samples being extracted for testing.

After homogenisation the paint material shall be allowed to settle for 30 min in a closed container to enable entrapped air to escape and any thixotropic properties to be regained. Take a 200 ml sample of each of the paint components.

If the mixture is prepared in an open receptacle, only a stainless steel smooth edged spatula shall be used to scrape the bottom carefully in order to set any solid deposits in suspension.

6.2 Preparation of the paint

Allow the samples to attain (23 ± 2) °C and then the component parts of the paint shall be rehomogenised.

ln the case of 2 (two) component products this shall be a base/activator mixture according to the activation ratio specified by the manufacturer.

Measure the flow time of the paint in accordance with ISO 2431 and adjust the viscosity using appropriate thinners to the flow time which is required by the product standard or in the manufacturer's instructions.

7 Procedure

lmmediately on completion of preparation, the paint mixture shall be decanted into a measuring cylinder until the upper surface of the meniscus shall be level with the 70 ml reference line.

Close the measuring cylinder using a cork or stopper and allow it to stand upright for 4 h in the temperature regulated enclosure.

On completion, shall be noted the volume V occupied by the supernatant fluid above the sediment.

8 Expression of results

The results shall be stated as:

— V: volume of supernatant fluid, expressed in ml;

— $I_s = V$: sedimentation rating expressed in ml over 4 h.

9 Test report

lt shall include the following:

— reference to this document;

— identification of the paint tested;

— identification of all batch numbers;

— identification of the base/activator mixing ratio where applicable;

— reference of any thinner used together with batch number;

— flow time of mixture used for test including reference to the flow cup number;

— test results;

— any deviation from this standard in detail;

— the date of testing.