

SLOVENSKI STANDARD SIST EN 4488:2014

01-februar-2014

Aeronavtika - Nekovinski materiali - Anaerobne polimerizirajoče zmesi - Zavarovanje vijakov - Navorna trdnost 2 Nm

Aerospace series - Non-metallic materials - Anaerobic polymerisable compounds - Threadlocking - Torque strength 2 Nm

Luft- und Raumfahrt - Nichtmetallische Werkstoffe - Anaerobe polymerisierbare Klebstoffe - Schraubensicherung - Torsionsfestigkeit 2 Nm VIII W

Série aérospatiale - Matériaux non-métalliques - Composé polymérisable anaérobie - Agent de freinage - Résistance au couple de torsion 2 Nm

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Ta slovenski standard je istoveten z: EN 4488-2014

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49.025.50 Lepila Adhesives

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EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4488

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English Version

Aerospace series - Non-metallic materials - Anaerobic polymerisable compounds - Threadlocking - Torque strength 2 Nm

Série aérospatiale - Matériaux non-métalliques - Composé polymérisable anaérobie - Agent de freinage - Résistance au couple de torsion 2 Nm

Luft- und Raumfahrt - Nichtmetallische Werkstoffe -Anaerobe polymerisierbare Klebstoffe -Schraubensicherung - Torsionsfestigkeit 2 Nm

This European Standard was approved by CEN on 10 November 2012.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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Foreword

This document (EN 4488:2013) 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 July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

This standard is part of a series of EN non-metallic materials standards for aerospace applications. The general organisation of this series is described in EN 4385. This standard is a level 3 document as defined in EN 4385. It has been prepared in accordance with TR 7000-7.

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1 Scope

This European Standard specifies the requirements relating to anaerobic polymerisable threadlocking compounds having a torque strength of 2 Nm for aerospace applications.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 3792, Aerospace series — Anaerobic polymerisable compounds — Technical specification 1)

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

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

3.1.1 Definition of subcase numbering

In the column "requirement" at the left hand side a subcase number is given. The definition of these subcase numbers is as follows:

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Subcase number _{SIS}	TEN 4488:2014 Definition
https://standards.iteh.ai/catalog	Technical/specification e-4da9-9507-
1 40001002	Test method
2	Frequency of testing
3	Sample type
4	Test piece definition
5	Condition of test piece
6	Testing condition
7	Acceptance criteria

5

¹⁾ Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).

Note 1 to entry: The absence of a subcase indicates that the necessary information is given in Table 1 of this standard, e.g. in the reference to the technical standard (characteristic 1.004).

All the necessary information which does not appear is to be found in the referenced technical specification or the relevant test method.

Note 2 to entry: In this material standard, batch acceptance test titles and subcases 7 acceptance criteria are highlighted in the form of a bold frame and bold characters to show that they are mandatory for routine acceptance of the material.

3.1.2 Other definitions

See EN 3792.

3.2 Symbols and abbreviations

See EN 3792.

4 Requirements

The required characteristics are given in:

- Table 1 General requirements
- Table 2 Requirements in the delivery condition
- Table 3 Requirements as processed to characteristic number 1.013
- Table 4 Environmental testing requirements as processed to characteristic number 1.013

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Characteristic number	Characteristic	02b217/sist-en-4488-2014 Requirements			
1.001	Material description	One part, threadlocking, compound	anaerobic polymerisable		
1.002	Formulation	Acrylic ester of a polyhydrox	Acrylic ester of a polyhydroxy compound		
1.003	Form and method of production	Liquid			
1.004	Technical specification	See EN 3792.			
1.005	Grade	- 01	- 02		
1.007	Colour	а			
1.010	Storage	Temperature < 25 °C, out of presence of oxygen	Temperature < 25 °C, out of direct sunlight and in the presence of oxygen		
1.011	Shelf life	Not less than 12 months under storage conditions			
1.013	Processing condition	At least 24 h at (23 \pm 2) °C	At least 24 h at (23 ± 2) °C		
1.093	Quality assurance	See EN 3792.	See EN 3792.		
1.094	Designation	See EN 4488 plus Grade.			
1.097	Flashpoint	> 100 °C			
1.098	Health and safety	See EN 3792.			
1.999	Notes	Colour to be agreed between purchaser and supplier.			

Table 2 — Requirements in the delivery condition

Characteristic number	Characteristic		Requirements		
2.007	Visual inspection	7	Correct colour (see Table 1)		
2.106	Cure rate	7	> 4 min		
2.106	Reactivity in contact with zinc	7	< 60 min		
2.106	Gel time – stability at 100 °C	7	> 10 min		
2.407	Viocositu	7	Grade	01	02
2.107	Viscosity		10 ⁻⁶ m ² /s	125 ± 25	500 ± 250
2.111	Fluorescence	7	Shall fluoresce		

Table 3 — Requirements as processed to characteristic number 1.013

Characteristic number	Characteristic	Requirements			
3.315	Teh STANDA Torque strength (standa)	ARD P	Grade	01	02
3.315		rds.itel	ı.ai)\m	2 ± 1	2 ± 1

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Table 4 — Environmental testing requirements as processed to characteristic number 1.013

Characteristic number		Characteristic	(0026217/s i	st-cn-4488-2014	Requirements	
4.503		Effect of dry heat	5	2 h at – 55 °C		1 000 h at 150 °C
	4.315	Torque strength	7	% of actual value when tested to characteris number 3.315		to characteristic
				> 150	> 95	> 60