SLOVENSKI STANDARD
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Aeronavtika - Kabelske spojke za vezalno pasovje - Preskusne metode - 306. del: Preskusi s toplotnim staranjem

Aerospace series - Cable ties for harnesses - Test methods - Part 306: Heat ageing test

Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 306: Alterungstest

Série aérospatiale - Frettes de câblage pour harnais - Méthodes d'essais - Partie 306 : Vieillissement en température

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 4057-306:2006) 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of an identical text or by endorsement, at the latest by June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

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1 Scope

This standard specifies the procedure to determine the force to failure of cable ties for harnesses for aerospace applications after a heat ageing exposure.

It shall be used together with EN 4057-100.

2 Normative references

The following referenced documents are indispensable for the application 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 4057-100, *Aerospace series — Cable ties for harnesses — Test methods — Part 100: General*

EN 4057-401, *Aerospace series — Cable ties for harnesses — Test methods — Part 401: Loop tensile strength*

3 Apparatus

A tensile tester as required in EN 4057-401 and additional equipment for measuring elongation. A laboratory oven capable of reaching a temperature corresponding to the maximum rated temperature of the cable ties as specified in the appropriate product Standard.

4 Procedure

A total number of nine specimens are required per material code and cross section.

Mount three of the specimens on split mandrels as described in EN 4057-401.

Place the three specimens mounted on the split mandrels, and further three specimens flat in the oven at the maximum rated temperature as specified in the product standard increased by $(30\ ^{+5}_{0})$ °C for 500 h with a tolerance of $^{+24}_{0}$ h.

Remove the specimens from the oven and submit to conditioning as specified EN 4057-100 Clause 4.1.

Within 30 min after finishing the conditioning, submit the three specimens still mounted on the original mandrel to the loop tensile strength test specified in EN 4057-100.

From the strap of the other three aged and three not aged samples prepare specimen that allow 25 mm of free length between the grips of a tensile tester. Tensile test the samples at the speed of (25 ± 2,5) mm per min, and measure the elongation percentage, over the gauge/test specimen length. The test is deemed complete when the sample breaks.

The value of the results shall be recorded.

5 Requirements

The tensile strength shall not be lower than that specified in the appropriate product standard.

The elongation at break of the three aged, flat samples shall not be less than the percentage of the elongation at break of the unaged, flat samples, as defined in the product standard.