SLOVENSKI STANDARD

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Aerospace series - Cable ties for harnesses - Test methods - Part 303: Resistance to fluids

Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 303: Beständigkeit gegen Flüssigkeiten

Série aérospatiale - Frettes de câblage pour harnais - Méthodes d'essais - Partie 303 : Tenue aux fluides

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This European Standard (EN 4057-303:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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1 Scope

This standard specifies the procedure to determine the resistance to fluids for cable ties for harnesses for aerospace applications.

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 3475-411, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 411: Resistance to fluids*

EN 3909, *Aerospace series — Test fluids for electrical components and sub-assemblies*

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 bath suitable for immersing the specimens in the fluid and at the temperatures specified in EN 3475-411. A tensile tester as required for testing the loop tensile strength, EN 4057-401.

4 Procedure

Taking account of safety information in EN 3909, for each of the fluids given in EN 3475-411 carry out the following steps:

Mount the specimen on a split mandrel as described in EN 4057-401.

Completely immerse specimens in the fluid for a period of 4 h ± 10 min at the immersion temperatures shown in EN 3475-411.

$(60\ ^{+30}_{0})$ min after completion of the immersion period submit the specimens still mounted on the original mandrels to the loop tensile strength test specified in EN 4057-401.

The minimum force to failure shall be recorded.

NOTE 1 Some test fluids may themselves, or in combination with the specimen, be toxic. Due consideration must be given to this possibility before commencing the test.

NOTE 2 Some test fluids may have a critical flash point temperature. Testing should always be undertaken in a suitable vessel if the temperature is exceeded.

5 Requirements

The minimum force to failure shall meet the requirements as specified in the appropriate product standard.