SLOVENSKI STANDARD
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Aeronavtika - Kabelske spojke za vezalno pasovje - Preskusne metode - 302. del: Gorljivost

Aerospace series - Cable ties for harnesses - Test methods - Part 302: Flammability

Luft- und Raumfahrt - Befestigungsbänder für Leitungsbündel - Prüfverfahren - Teil 302: Entflammbarkeit

Série aérospatiale - Frettes de câblage pour harnais - Méthodes d'essais - Partie 302 : Tenue à la flamme

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Contents

Page

Foreword

This document (EN 4057-302:2006) 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of an identical text or by endorsement, at the latest by June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.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 burning characteristics of 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 4057-100, *Aerospace series — Cable ties for harnesses — Test methods — Part 100: General*

3 Apparatus

A hood or cabinet free from air currents, a 9,5 mm Bunsen burner set up as described in Figure 1.

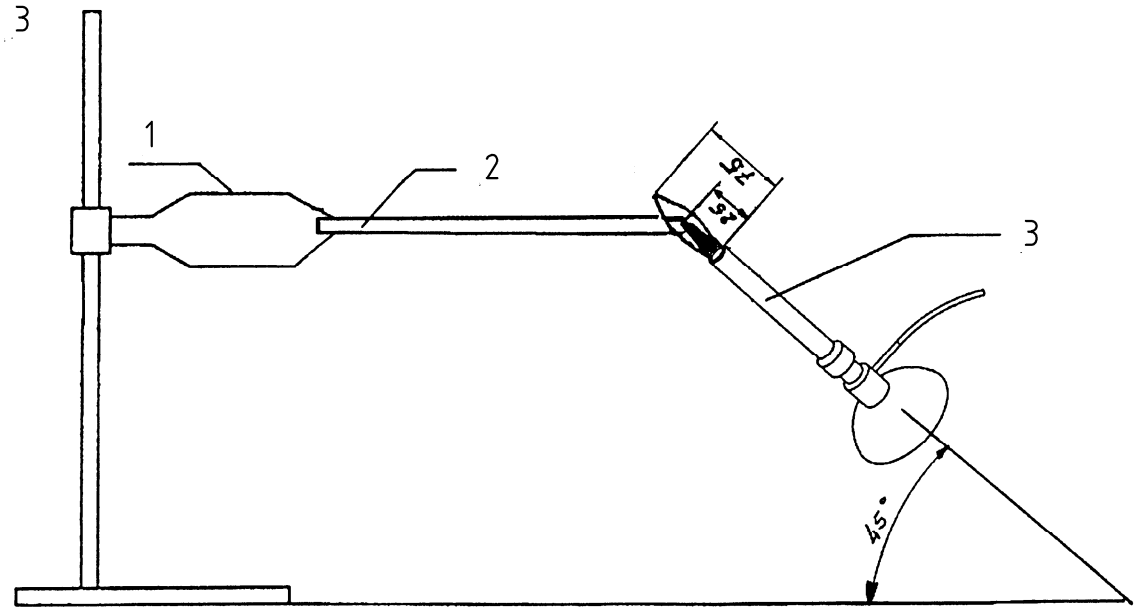
4 Procedure

The tail of the cable tie shall be cut back to the uniform section. The specimen shall be mounted horizontally. The Bunsen burner shall be adjusted to give a 75 mm non-luminous flame with a blue cone of 25 mm. Insert a bare copper wire of (0,7 ± 0,025) mm diameter, and having a free length of not less than 100 mm, into the flame, the end of the wire being immediately above the tip of the inner cope. Adjust the burner so that the wire starts to melt within 4 s to 6 s of being inserted into the flame. The Bunsen burner shall be held at a (45 ± 5)° angle to the specimen and the tip of the strap be introduced into the blue cone of the flame for $(10\ ^{+1}_{0})$ s. The time taken for the flaming specimen to extinguish after removal from the flame shall be recorded and any observation of falling burning or flaming particles shall also be recorded.

NOTE Care should be exercised in performing this test as toxic fumes may be given off during combustion.

5 Requirements

The specimen shall meet the requirements as specified in the appropriate product standard.



Key
1 Clamp
2 Test specimen
3 Burner

Figure 1