



**SLOVENSKI STANDARD**  
**kSIST FprEN 16602-70-13:2014**  
**01-julij-2014**

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**Zagotavljanje varnih proizvodov v vesoljski tehniki - Merjenje lupilne in odtržne trdnosti prevlek in oblog z uporabo trakov, občutljivih na tlak**

Space product assurance - Measurements of the peel and pull-off strength of coatings and finishes using pressure-sensitive tapes

Raumfahrtproduktsicherung - Ermittlung der Schäl- und Abziehfestigkeit von Überzügen und Beschichtungen unter Anwendung von Haftbändern

Assurance produit des projets spatiaux - Mesure de la force d'arrachement des revêtements et apprêts de rubans auto-adhésifs

**Ta slovenski standard je istoveten z: FprEN 16602-70-13**

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**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
49.140	Vesoljski sistemi in operacije	Space systems and operations

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**FINAL DRAFT**  
**FprEN 16602-70-13**

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ICS 49.040; 49.140

Will supersede EN 14099:2001

English version

## Space product assurance - Measurements of the peel and pull-off strength of coatings and finishes using pressure-sensitive tapes

Assurance produit des projets spatiaux - Mesure de la force d'arrachement des revêtements et apprêts de rubans auto-adhésifs

Raumfahrtproduktsicherung - Ermittlung der Schäl- und Abziehfestigkeit von Überzügen und Beschichtungen unter Anwendung von Haftbändern

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/CLC/TC 5.

If this draft becomes a European Standard, CEN and CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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## Foreword

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This document (FprEN 16602-70-13:2014) has been prepared by Technical Committee CEN/CLC/TC 5 "Space", the secretariat of which is held by DIN (Germany).

This document (FprEN 16602-70-13:2014) originates from ECSS-Q-ST-70-13C Rev.1.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 14099:2001.

This document has been developed to cover specifically space systems and will therefore have precedence over any EN covering the same scope but with a wider do-main of applicability (e.g. : aerospace).

# 1

## Scope

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This Standard details a test in which pressure-sensitive tapes are used to assess the suitability of, for example, coatings, paints, films and other thin materials, proposed for use on spacecraft and associated equipment.

Surface coatings, such as thermal control paints and corrosion protection coatings, are affected, both on the ground and after launch, by exposure to the environment.

It is therefore important that the adhesion of the coating to the relevant substrate remains at an acceptable level after exposure to the relevant environmental condition.

The following materials and assemblies are covered by this test method:

- organic coating, e.g. varnishes, paints and plastic films;
- metallic finishes on, for example, printed circuit boards, second-surface mirrors, thermal radiators, plastic films;
- adhesive layers;
- composite thin films;
- small assemblies, e.g. solar cells having attached glass covers.

This standard may be tailored for the specific characteristics and constraints of a space project in conformance with ECSS-S-ST-00.

## Normative references

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The following normative documents contain provisions which, through reference in this text, constitute provisions of this ECSS Standard. For dated references, subsequent amendments to, or revision of any of these publications do not apply. However, parties to agreements based on this ECSS Standard are encouraged to investigate the possibility of applying the more recent editions of the normative documents indicated below. For undated references, the latest edition of the publication referred to applies.

EN reference	Reference in text	Title
EN 16601-00-01	ECSS-S-ST-00-01	ECSS system – Glossary of terms
EN 16602-10-09	ECSS-Q-ST-10-09	Space product assurance – Nonconformance control system
EN 16602-20	ECSS-Q-ST-20	Space product assurance – Quality assurance
EN 16602-40	ECSS-Q-ST-40	Space product assurance – Safety
EN 16602-70-02	ECSS-Q-ST-70-02	Space product assurance – Thermal vacuum outgassing test for the screening of space materials