



SLOVENSKI STANDARD
kSIST FprEN 16602-70-46:2014
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Zagotavljanje varnih proizvodov v vesoljski tehniki - Zahteve za izdelavo in preskrbo vijaknih zvez

Space product assurance - Requirements for manufacturing and procurement of threaded fasteners

Raumfahrtproduktsicherung - Anforderungen für die Herstellung und Beschaffung von eingezogenen Klemmen/Befestigern

Assurance produit des projets spatiaux - Exigences pour la fabrication et l'approvisionnement de fixations filetées

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ICS:

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ICS

English version

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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.

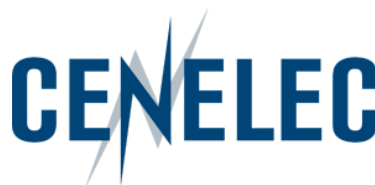
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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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Foreword

This document (FprEN 16602-70-46:2014) has been prepared by Technical Committee CEN/CLC/TC 5 “Space”, the secretariat of which is held by DIN (Germany).

This document (FprEN 16602-70-46:2014) originates from ECSS-Q-ST-70-46C Rev.1.

This document is currently submitted to the Unique Acceptance Procedure.

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 domain of applicability (e.g. : aerospace).

1

Scope

This Standard defines the requirements for manufacturing, provision, inspection and quality control of high-quality threaded fastening devices (bolts, nuts, studs and screws) hereafter referred to as threaded fasteners or fasteners, used in space hardware.

This Standard does not include a complete review of the factors relevant to the fabrication of high quality threaded fasteners. It provides the definition of the technical requirements and quality control procedures to be applied in the fabrication and supply of threaded fasteners for spacecraft applications.

Fasteners for spacecraft applications are those aerospace standard fasteners (i.e. in accordance with LN, DIN or other national or international aerospace standards), or those fasteners meeting or exceeding the requirements in ISO 4759-1 for “Product grade A”, which also fulfil the requirements for space applications as specified in the present document.

2

Normative references

The following dated normative documents are called by the requirements of this ECSS Standard and therefore constitute requirements to it. Subsequent amendments to, or revisions of any of these publications do not apply.

NOTE However, parties to agreements based on this ECSS Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below.

EN reference	Reference in text	Title
EN 16601-00-01	ECSS-S-ST-00-01C	ECSS system – Glossary of terms
EN 16603-30-01	ECSS-E-ST-30-01C	Space engineering – Fracture control
EN 16602-70	ECSS-Q-ST-70C	Space product assurance – Materials, parts and processes
EN 16602-70-02	ECSS-Q-ST-70-02C	Space product assurance – Thermal vacuum outgassing test for the screening of space materials
EN 16602-70-29	ECSS-Q-ST-70-29C	Space product assurance – The determination of offgassing products from materials and assembled articles to be used in a manned space vehicle crew compartment
EN 16602-70-36	ECSS-Q-ST-70-36C	Space product assurance – Material selection for controlling stress-corrosion cracking
EN 16602-70-37	ECSS-Q-ST-70-37C	Space product assurance – Determination of the susceptibility of metals to stress– corrosion cracking
EN 16602-70-71	ECSS-Q-ST-70-71C	Space product assurance – Data for selection of space materials
	ISO 204	Metallic materials – Uninterrupted uniaxial creep testing in tension – Method of test
	ISO 225	Fasteners – Bolts, screws, studs and nuts – Symbols and designations of dimensions
	ISO 1502	ISO general – purpose metric screw threads – Gauges and gauging