



NSAI
Standards

Irish Standard
I.S. EN 16602-70-31:2014

Space product assurance - Application of paints and coatings on space hardware

I.S. EN 16602-70-31:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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**Space product assurance - Application of paints and coatings on
space hardware**

Assurance produit des projets spatiaux - Application des
peintures et revêtements des matériels d'un projet spatial

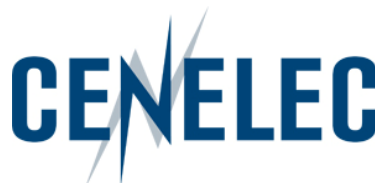
Raumfahrtproduktsicherung - Anwendung von Farben und
Beschichtungen auf Raumflug-Hardware

This European Standard was approved by CEN on 11 April 2014.

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Table of contents

Foreword	4
Introduction.....	5
1 Scope.....	6
2 Normative references	7
3 Terms, definitions and abbreviated terms.....	9
3.1 Terms from other standards.....	9
3.2 Terms specific to the present standard	9
3.3 Abbreviated terms.....	10
4 Requirements.....	11
4.1 General.....	11
4.1.1 Establishment of verification programme.....	11
4.1.2 Surface to be coated	11
4.1.3 Potential limitations on parts geometry and structure	11
4.1.4 Aspect and dimensions of parts prior to painting	12
4.2 Preparatory conditions.....	12
4.2.1 Hazards, health and safety precautions	12
4.2.2 Preparation of materials and workpieces.....	12
4.2.3 Procurement	13
4.2.4 Facilities.....	13
4.2.5 Equipment.....	14
4.3 Procedures	15
4.3.1 Pre-treatment.....	15
4.3.2 Masking	16
4.3.3 Primer	17
4.3.4 Paint	17
4.3.5 Handling and packaging of finished parts.....	19
4.3.6 Paint repairing process	19
4.4 Acceptance criteria	20
4.5 Quality assurance	21

4.5.1	General	21
4.5.2	Data	21
4.5.3	Nonconformance.....	21
4.5.4	Calibration.....	21
4.5.5	Traceability	21
Bibliography.....		22

Foreword

This document (EN 16602-70-31:2014) has been prepared by Technical Committee CEN/CLC/TC 5 “Space”, the secretariat of which is held by DIN.

This standard (EN 16602-70-31:2014) originates from ECSS-ST-Q-70-31C.

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of an identical text or by endorsement, at the latest by April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.

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

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Introduction

This Standard describes in a generic way the methods and techniques that can be used for application of paints on space hardware. This document is prepared to replace all existing ECSS-Q-70 paint standards, i.e. ECSS-Q-70-25A, ECSS-Q-70-33A, ECSS-Q-70-34A and ECSS-Q-70-35A. It also covers the acceptance criteria for paints.

The parameters to be defined are:

- For substrate:
 - Cleanliness
 - Roughness or other preparation
- For primer:
 - Quality
 - Thickness
 - Adhesion
 - Time between application of primer and application of paint
- For paint:
 - Aspect
 - Thickness
 - Adhesion
 - Thermo-optical properties
 - Electrical properties

NOTE This list is not exhaustive.

1

Scope

This Standard defines the approach for producing a defined surface finish to spacecraft or associated equipment, by means of the controlled application of a paint. This also includes measurements and verifications to be performed.

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

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