



NSAI
Standards

Irish Standard
I.S. EN 16602-70-29:2014

Space product assurance - Determination of offgassing products from materials and assembled articles to be used in a manned space vehicle crew compartment

I.S. EN 16602-70-29:2014

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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English version

Space product assurance - Determination of offgassing products from materials and assembled articles to be used in a manned space vehicle crew compartment

Assurance produit des projets spatiaux - Détermination des produits de dégazage sous atmosphère pour les matériaux et éléments assemblés utilisés dans le poste d'équipage du satellite habité

Raumfahrtproduktsicherung - Bestimmung der Abgabe von Fremdstoffen durch Werkstoffe und Bauteile im Mannschaftsraum von Raumfahrzeugen

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

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**CEN-CENELEC Management Centre:
Avenue Marnix 17, B-1000 Brussels**

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Foreword

This document (EN 16602-70-29:2014) has been prepared by Technical Committee CEN/CLC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16602-70-29:2014) originates from ECSS-Q-ST-70-29C.

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of an identical text or by endorsement, at the latest by April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.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 supersedes EN 14100:2001.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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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1 Scope

All non-metallic materials release trace contaminants into the surrounding environment; the extent to which this occurs is dependent on the nature of the material concerned. In the closed environment of a manned spacecraft contaminants within the atmosphere are potentially dangerous with respect to toxicity and its consequences for the safety of the crew.

This Standard defines a test procedure for the determination of the trace contaminants release by non-metallic materials under a set of closely controlled conditions. The test procedure covers both individual materials and assembled articles.

In this Standard the supplier means the testing authority that is responsible for specifying and executing the offgassing tests.

This Standard describes a test to provide data for aid in the evaluation of the suitability of assembled articles and materials for use in a space vehicle crew compartment. The data obtained are in respect of the nature and quantity of organic and inorganic volatile contaminants evolved when subjected to the crew compartment environment.

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

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