**Doc: TED 14 (22936) WC**
**ISO 15388 : 2022**
**July 2023**

*For Comments Only*

**BUREAU OF INDIAN STANDARDS**

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भारतीय मानक मसौदा

# अंतरिक्ष प्रणालियाँ — संदूषण और स्वच्छता नियंत्रण

**Draft** *Indian Standard*

# SPACE SYSTEMS — CONTAMINATION AND CLEANLINESS CONTROL

ICS: 49.140

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| **Air and Space Vehicles Sectional Committee, TED 14** | **Last date for receipt of comments is 25/09/2023** |

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Air and Space Vehicles Sectional Committee, TED 14

NATIONAL FOREWORD

*(Formal Clause to be added later)*

The text of ISO standard is proposed for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For undated references, the latest edition of the referenced document applies, including any corrigenda and amendment.

| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
|---|---|---|
| ISO 14952-2 Space systems — Surface cleanliness of fluid systems — Part 2 Cleanliness levels | Doc (22930) / ISO 14952-2 : 2003 Space systems — Surface cleanliness of fluid systems — Part 2 Cleanliness levels (*under development*) | Identical under dual numbering |
| ISO 14952-3 Space systems — Surface cleanliness of fluid systems — Part 3 Analytical procedures for the determination of nonvolatile residues and particulate contamination | Doc (22931) / ISO 14952-3 : 2003 Space systems — Surface cleanliness of fluid systems — Part 3: Analytical procedures for the determination of nonvolatile residues and particulate contamination (*under development*) | Identical under dual numbering |

The technical committee has reviewed the provisions of following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard. For undated references, the latest edition of the referenced document applies, including any corrigenda and amendment.

| *International Standard* | *Title* |
|---|---|
| ISO 14624-3 | Space systems — Safety and compatibility of materials — Part 3 Determination of offgassed products from materials and assembled articles |
| ISO 14644-1 | Cleanrooms and associated controlled environments — Part 1 Classification of air cleanliness by particle concentration |
| ISO 14698-1 | Cleanrooms and associated controlled environments — Biocontamination control — Part 1 General principles and methods |
| ISO 14698-2 | Cleanrooms and associated controlled environments — Biocontamination control — Part 2 Evaluation and interpretation of biocontamination data |

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

**SCOPE**

This document establishes general requirements for contamination and cleanliness control that are applicable, at all tiers of supply, to the development of space systems, including ground processing facilities, ground support

equipment, launch vehicles, spacecraft, payloads, and ground processing and on-orbit operations. It also provides guidelines for the establishment of a contamination and cleanliness control programme.

**FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 15388 : 2022 or CONTACT:**

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