

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

हाइड्रोजन ईंधन का गुणवत्ता — उत्पाद विशिष्टि

(IS 16061 का दूसरा पुनरीक्षण)

Draft Indian Standard

HYDROGEN FUEL QUALITY — PRODUCT SPECIFICATION

(Second Revision of IS 16061)

(ICS No. 71.100.20)

Petroleum and their Related Products of Synthetic
or Biological or Natural Origin Sectional
Committee, PCD 03

Last date for receipt of comment is
25 May 2025

NATIONAL FOREWORD

(Formal clauses will be added later)

This standard specifies the minimum quality characteristics of hydrogen fuel as distributed for utilization in vehicular and stationary applications.

Part 1 of this standard was originally published in 2013 by adopting ISO 14687-1: 1999, while Part 2 of this standard was published in 2016 by adopting ISO 14687-2: 2012. Subsequently, the ISO standards were revised and merged into ISO 14687: 2019. The first revision of this standard was undertaken to align it with ISO 14687: 2019 and Parts 1 and 2 of this standard were amalgamated.

The following major changes were made during the first revision:

- a) Scope expanded to include stationary and vehicular applications;
- b) Terminology expanded; and
- c) Methane added as contaminant for vehicular application.

The second revision of this standard has been undertaken to align it with ISO 14687: 2025.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain 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.

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 19880-8	Gaseous hydrogen — Fuelling stations — Part 8: Fuel Quality Control
ISO 19880-9	Gaseous hydrogen — Fuelling stations — Part 9: Sampling for fuel quality analysis
ISO 21087	Gas analysis — Analytical methods for hydrogen fuel — Proton exchange membrane (PEM) fuel cell applications for road vehicles

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE — The technical content of this document has not been enclosed as this is identical with the corresponding ISO Standard. For details, please refer to ISO 14687: 2025 or kindly contact:

Shri Chinmay Dwivedi
Sc – E & Head (PCD)
Petroleum & Coal related products Department (PCD)
Bureau of Indian Standards
9, B.S. Zafar Marg,
New Delhi-110002
Email: pcd@bis.gov.in
Telephone: 011-23235432