

SLOVENSKI STANDARD
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Naftna in plinska industrija, vključno z nizkoogljično energijo - Materiali za uporabo v okoljih s H2S v proizvodnji olja in plina - 2. del: Ocena okolja storitev in izbira materialov (ISO/DIS 15156-2:2025)

Oil and gas industries including lower carbon energy - Materials for use in H2S-containing environments in oil and gas production - Part 2: Service environment assessment and material selection (ISO/DIS 15156-2:2025)

Öl- und Gasindustrie einschließlich kohlenstoffärmer Energieträger - Werkstoffe für den Einsatz in H₂S-haltiger Umgebung bei der Öl- und Gasgewinnung - Teil 2: Bewertung der Betriebsumgebung und Werkstoffauswahl (ISO/DIS 15156-2:2025)

Industries du pétrole et du gaz naturel - Matériaux pour utilisation dans des environnements contenant de l'hydrogène sulfuré (H₂S) dans la production de pétrole et de gaz - Partie 2: Évaluation de l'environnement de service et choix des matériaux (ISO/DIS 15156-2:2025)

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ISO/DIS 15156-2

Oil and gas industries including lower carbon energy — Materials for use in H₂S-containing environments in oil and gas production —

Part 2:
Service environment assessment Preview
and material selection

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Foreword

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This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 12, *Oil and gas industries including lower carbon energy*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 15156-2:2020) which has been technically revised. The main changes compared to the previous edition are as follows:

- ISO 15156 series has been rewritten and the content reorganized into three new parts as follows:
 - Part 1: Materials and materials processing requirements;
 - Part 2: Service environment assessment and material selection;
 - Part 3: Verification, qualification and balloting requirements.
- greater detail is given in assessing H₂S-containing environments in [Clause 6](#), including:
 - the definition of a new region of SSC environmental severity (Region 4) that has been defined for the most severe environments;
 - clearer guidance on when and how to apply parameters other than p_{H_2S} in the definition of environmental severity (e.g. f_{H_2S} , aH₂S and cH₂S).
- cast iron, and carbon and low alloy steel material selection requirements are detailed for the new SSC environmental severity Region 4 in [Annex A](#);
- CRA materials selection tables in [Annex B](#) have been rationalised and updated according to the latest industry experiences;
- many equipment-specific CRA entries in ISO 15156-3:2020 with few or no environmental limits have been moved to [Clause B.3](#), providing better guidance on why this was historically acceptable and the potential limits of its applicability;
- guidance has been added to increase clarity with respect to API 6A wellhead and tree material classes.

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A list of all parts in the ISO 15156 series can be found on the ISO website.

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