



SLOVENSKI STANDARD SIST EN ISO 17348:2016

01-maj-2016

Industrija za predelavo nafte in zemeljskega plina - Izbira materialov za zaščitne, proizvodne (dvižne) cevi ter opremo za vrtine v okolju z visoko vsebnostjo CO2 (ISO 17348:2016)

Petroleum and natural gas industries - Materials selection for high content CO2 environment for casings, tubings and downhole equipment (ISO 17348:2016)

Erdöl-, petrochemische und Erdgasindustrie - Werkstoffauswahl in CO2 Umgebung für nahtlose Rohre und Formstücke für den Gebrauch als Futterrohr, Steigrohr und Bohrloch-Ausrüstungen - Richtlinien (ISO 17348:2016)

Industries du pétrole et du gaz naturel - Choix des matériaux une teneur élevée en CO2 pour tubes de cuvelage et de production et équipements de fond (ISO 17348:2016)

Ta slovenski standard je istoveten z: EN ISO 17348:2016

ICS:

75.180.10	Oprema za raziskovanje in odkopavanje	Exploratory and extraction equipment
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EUROPEAN STANDARD

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Petroleum and natural gas industries - Materials selection for high content CO₂ environment for casings, tubings and downhole equipment (ISO 17348:2016)

Industries du pétrole et du gaz naturel - Choix des matériaux une teneur élevée en CO₂ pour tubes de cuvelage et de production et équipements de fond (ISO 17348:2016)

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
European foreword.....	3

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[SIST EN ISO 17348:2016](https://standards.iteh.ai/catalog/standards/sist/9b1ca808-83ce-4d7d-9ab1-33431f97042e/sist-en-iso-17348-2016)

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European foreword

This document (EN ISO 17348:2016) has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" in collaboration with Technical Committee CEN/TC 12 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" the secretariat of which is held by NEN.

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 September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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INTERNATIONAL
STANDARD

ISO
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First edition
2016-02-15

**Petroleum and natural gas
industries — Materials selection for
high content CO₂ for casing, tubing
and downhole equipment**

*Industries du pétrole et du gaz naturel — Choix des matériaux une
teneur élevée en CO₂ pour tubes de cuvelage et de production et
équipements de fond*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	2
3.1 Terms and definitions.....	2
3.2 Abbreviated terms.....	5
4 Guidelines for corrosion evaluation	5
4.1 General.....	5
4.2 Corrosion by produced or injected fluids — Corrosion likelihood.....	6
4.2.1 Gas production wells.....	7
4.2.2 Injection wells.....	7
5 Materials selection	7
5.1 Gas injection with high CO ₂ content.....	8
5.2 Water alternating gas with high CO ₂ content (WAG) injection systems.....	8
5.3 Gas production wells with high CO ₂ content.....	9
5.4 Production casing.....	9
5.5 Sealing and packers.....	10
5.5.1 General.....	10
5.5.2 Non-metallic seals and packing elements.....	10
5.6 Liners.....	11
6 Corrosion control	12
6.1 Corrosion prevention.....	12
6.1.1 Completion with CRA and cladding.....	12
6.1.2 Completion with GRE liners.....	12
6.2 Corrosion management.....	12
6.3 Internal corrosion allowance.....	12
Annex A (informative) Example of material selection for gas production	13
Bibliography	16

ISO 17348:2016(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*.

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Introduction

This International Standard gives recommendations and guidelines for materials selection in oil and gas production wells, specifically for high CO₂ content gas injection and production systems, as well as for water alternating gas (WAG) injection systems. It is intended to enable responsible parties to carry out materials selection in a consistent manner as a part of the engineering work, based upon a design basis for a particular installation. The main users of this International Standard are oil and gas production companies and engineering contractors. Material manufacturers and equipment suppliers can benefit from using this International Standard for their product development.

Carbon capture and storage (CCS) has been identified as an important technology for achieving a significant reduction in CO₂ emissions to the atmosphere.

Many of the technologies and practices that have been developed for CO₂ enhanced oil recovery (EOR) can have applicability in CCS projects, assuming that each project design meets its site-specific conditions. The CO₂ EOR experiences of the oil and gas industry represent the largest collective base of technical information available on CO₂ injection and, as such, provide valuable information for development and implementation of CCS field projects as they move forward.

This International Standard does not provide detailed material requirements and recommendations for manufacturing and testing of equipment. Such information can be found in particular product standards and in manufacturing and testing standards. Other International Standards related to material usage limitations are referred to, e.g. ISO 15156 (all parts) for H₂S containing service.

In case of conflict between this International Standard and other international product standards, the requirements of the latter take precedence.

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