

ILNAS

Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN ISO 12736-1:2023

Oil and gas industries including lower carbon energy - Wet thermal insulation systems for pipelines and subsea equipment - Part 1: Validation of

Öl- und Gasindustrie einschließlich
kohlenstoffarmer Energieträger -
Wärmedämmschicht für Rohrleitungen
und Unterwasseranlagen - Teil 1:

Industries du pétrole et du gaz, y compris
les énergies à faible teneur en carbone -
Systèmes d'isolation thermique en milieu
humide pour conduites et équipements

10/2023



National Foreword

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ILNAS-EN ISO 12736-1:2023

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Oil and gas industries including lower carbon energy - Wet thermal insulation systems for pipelines and subsea equipment - Part 1: Validation of materials and insulation systems (ISO 12736-1:2023)

Industries du pétrole et du gaz, y compris les énergies à faible teneur en carbone - Systèmes d'isolation thermique en milieu humide pour conduites et équipements sous-marins - Partie 1: Validation des matériaux et des systèmes d'isolation (ISO 12736-1:2023)

Erdöl- und Erdgasindustrie - Wärmedämmschicht für Rohrleitungen und Unterwasseranlagen - Teil 1: Validierung von Materialien und Isoliersystemen (ISO 12736-1:2023)

This European Standard was approved by CEN on 1 October 2023.

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European foreword

This document (EN ISO 12736-1:2023) has been prepared by Technical Committee ISO/TC 67 "Oil and gas industries including lower carbon energy" in collaboration with Technical Committee CEN/TC 12 "Oil and gas industries including lower carbon energy" 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of an identical text or by endorsement, at the latest by April 2024, and conflicting national standards shall be withdrawn at the latest by April 2024.

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Endorsement notice

The text of ISO 12736-1 has been approved by CEN as EN ISO 12736-1:2023 without any modification.

**Oil and gas industries including
lower carbon energy — Wet thermal
insulation systems for pipelines and
subsea equipment —**

**Part 1:
Validation of materials and insulation
systems**

*Industries du pétrole et du gaz, y compris les énergies à faible teneur
en carbone — Systèmes d'isolation thermique en milieu humide pour
conduites et équipements sous-marins —*

Partie 1: Validation des matériaux et des systèmes d'isolation



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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*, Subcommittee SC 2, *Pipeline transportation systems*, 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 first edition of ISO 12736-1, together with ISO 12736-2 and ISO 12736-3, cancels and replaces ISO 12736:2014.

The main changes are as follows:

- clearer delineation between validation and projects;
- introduction of material classes;
- modification of material property testing requirements, including detailed thermal conductivity testing requirements;
- introduction of additional long-term testing requirements;
- introduction of additional system testing requirements, including system interfaces;
- removal of project specific testing requirements;
- addition of requirement for risk-based analysis of the system long-term performance;
- modifications of the format and content requirements of the final validation dossier;
- addition of [Annex A](#) with guidance for using this document.