



SLOVENSKI STANDARD
oSIST prEN ISO 12736:2012
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Industrija za predelavo nafte in zemeljskega plina - Mokre toplotne izolacijske prevleke za naftovode, dovodne cevi, opremo in podvodne konstrukcije (ISO/DIS 12736:2011)

Petroleum and natural gas industries - Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures (ISO/DIS 12736:2011)

Erdöl- und Erdgasindustrie - Unterwasser - Wärmedämmschicht für Rohrleitungen, Vorlauf, Zubehör und Unterwasserkonstruktionen (ISO/DIS 12736:2011)

Industries du pétrole et du gaz naturel - Revêtements pour isolation thermique de canalisations et équipements sous marins (ISO/DIS 12736:2011)

Ta slovenski standard je istoveten z: prEN ISO 12736

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ICS:

25.220.01	Površinska obdelava in prevleke na splošno	Surface treatment and coating in general
75.180.10	Oprema za raziskovanje in odkopavanje	Exploratory and extraction equipment

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English Version

Petroleum and natural gas industries - Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures (ISO/DIS 12736:2011)

Industries du pétrole et du gaz naturel - Revêtements pour isolation thermique de canalisations et équipements sous marins (ISO/DIS 12736:2011)

Erdöl- und Erdgasindustrie - Unterwasser - Wärmedämmschicht für Rohrleitungen, Vorlauf, Zubehör und Unterwasserkonstruktionen (ISO/DIS 12736:2011)

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 12.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (prEN ISO 12736:2011) 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 AFNOR.

This document is currently submitted to the parallel Enquiry.

Endorsement notice

The text of ISO/DIS 12736:2011 has been approved by CEN as a prEN ISO 12736:2011 without any modification.

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DRAFT INTERNATIONAL STANDARD ISO/DIS 12736

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Petroleum and natural gas industries — Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures

Industries du pétrole et du gaz naturel — Revêtements pour isolation thermique de canalisations et équipements sous marins

ICS 25.220.20; 75.180.10

ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

In accordance with the provisions of Council Resolution 15/1993 this document is circulated in the English language only.

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To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 12736 was prepared by Technical Committee ISO/TC 67, *Material, equipment and offshore structures for the petroleum and natural gas industries*, Subcommittee SC 2, *Pipeline transportation systems*.

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Introduction

It is necessary that users of this ISO 12736 be aware that further or differing requirements can be required for individual applications. This ISO 12736 is not intended to inhibit a Vendor from offering, or the Purchaser from accepting, alternative equipment or engineering solutions for the individual application. This can be particularly applicable where there is innovative or developing technology. Where an alternative is offered, it is the responsibility of the Vendor to identify any variations from this ISO 12736 and provide details.

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Petroleum and natural gas industries — Wet thermal insulation coatings for pipelines, flow lines, equipment and subsea structures

1 Scope

This International Standard defines the minimum requirements for qualification, application, testing handling, storage and transportation of new and existing wet thermal insulation systems for pipelines, flowlines, equipment and subsea structures in the petroleum and natural gas industries. The purpose of the system is to provide corrosion protection and thermal insulation.

This International Standard is applicable for wet insulation systems submerged in sea water.

This International Standard is not applicable to pipe in pipe systems.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 37, Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties

ISO 62, Plastics - Determination of water absorption

ISO 178, Plastics - Determination of flexural properties

ISO 527 (all parts), Plastics - Determination of tensile properties

ISO 814, Rubber, vulcanized or thermoplastic - determination of adhesion to metal - two-plate method

ISO 844, Rigid cellular plastics - determination of compression properties

ISO 868, Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)

ISO 1133, Plastics - Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of the thermoplastics

ISO 1183 (all parts), Plastics - Methods for determining the density of non-cellular plastics

ISO 1827, Rubber, vulcanized or thermoplastic - Determination of shear modulus and adhesion to rigid plates - Quadruple shear methods

ISO 2063, Thermal spraying metallic and other inorganic coatings Zinc, Aluminium and their alloys

ISO 2178, Non magnetic coatings on magnetic substrates - Measurement of coating thickness - Magnetic method

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ISO 2781, Rubber, vulcanized or thermoplastic - Determination of density

ISO 2808, Paints and varnishes - Determination of film thickness

ISO 2811-1, Paints and varnishes - Determination of density - Part 1: Pycnometer method

ISO 2884 (all parts), Paints and varnishes - Determination of viscosity using rotary viscometers

ISO 3104, Petroleum products - Transparent and opaque liquids - Determination of kinematic viscosity and calculation of dynamic viscosity

ISO 3219, Plastics - Polymers/resins in the liquid state or as emulsions or dispersions - Determination of viscosity using a rotational viscometer with defined shear rate

ISO 3451 (all parts), Plastics - Determination of ash

ISO 4590, Rigid cellular plastics - Determination of the volume percentage of open cells and of closed cells

ISO 4624, Paint and varnishes - Pull-off test for adhesion

ISO 4892, Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance

ISO 4897, Cellular plastics - Determination of the coefficient of linear thermal expansion of rigid materials at sub-ambient temperatures

ISO 6502, Rubber - Guide to the use of curemeters

ISO 7619, Rubber, vulcanized or thermoplastic - Determination of indentation hardness

ISO 7784 (all parts), Paints and varnishes - Determination of resistance to abrasion

ISO 8301, Thermal insulation - Determination of steady state thermal resistance and related properties - Heat flow meter apparatus

ISO 8302, Thermal insulation - Determination of steady-state thermal resistance and related properties - Guarded hot plate apparatus

ISO 8501, Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness

ISO 8502-3, Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 3: Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method)

ISO 8502-4, Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 4: Guidance on the estimation of the probability of condensation prior to paint application

ISO 8502-6:2006, Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 6 Extraction of soluble contaminants for analysis - The Bresle method

ISO 8502-9, Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 9: Field method for the conductometric determination of water-soluble salts

ISO 8503, Preparation of steel substrates before application of paints and related products - Surface roughness characteristics of blast-cleaned steel substrates