



SLOVENSKI STANDARD
SIST EN ISO 20088-3:2020

01-januar-2020

Ugotavljanje obstojnosti izolacijskih materialov pri puščanju v kriogenem območju
- 3. del: Visokotlačni curek (ISO 20088-3:2018)

Determination of the resistance to cryogenic spillage of insulation materials - Part 3: Jet release (ISO 20088-3:2018)

Bestimmung der Beständigkeit von Isoliermaterialien bei kryogenem Auslaufen - Teil 3: Freisetzung von Hochdruckstrahlen (ISO 20088-3:2018)

Détermination de la résistance des matériaux d'isolation thermique suite à un refroidissement cryogénique - Partie 3: Émission sous forme de jet (ISO 20088-3:2018)

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Ta slovenski standard je istoveten z: EN ISO 20088-3:2019

ICS:

23.020.40 Proti mrazu odporne posode Cryogenic vessels
(kriogenske posode)

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EUROPEAN STANDARD

EN ISO 20088-3

NORME EUROPÉENNE

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Determination of the resistance to cryogenic spillage of insulation materials - Part 3: Jet release (ISO 20088-3:2018)

Détermination de la résistance des matériaux d'isolation thermique suite à un refroidissement cryogénique - Partie 3: Émission sous forme de jet (ISO 20088-3:2018)

Bestimmung der Beständigkeit von Isoliermaterialien bei kryogenem Auslaufen - Teil 3: Freisetzung von Hochdruckstrahlen (ISO 20088-3:2018)

This European Standard was approved by CEN on 5 August 2019.

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European foreword

The text of ISO 20088-3:2018 has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20088-3:2019 by Technical Committee CEN/TC 282 "Installation and equipment for LNG" the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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

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INTERNATIONAL
STANDARD

ISO
20088-3

First edition
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**Determination of the resistance
to cryogenic spillage of insulation
materials —**

**Part 3:
Jet release**

iTeh STANDARD PREVIEW
*Détermination de la résistance des matériaux d'isolation thermique
suite à un refroidissement cryogénique —
Partie 3: Émission sous forme de jet*
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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.

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 9, *Liquefied natural gas installations and equipment*.

A list of all parts in the ISO 20088 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The test is intended to be, as far as practicable, representative of a potential accidental pressurized release of cryogenic liquid natural gas (LNG) manufactured in industrial plants. The test includes:

- a) an initial enhanced cooling effect due to the momentum driven liquid contact with the substrate;
- b) a localized force that may be expected in a cryogenic jet release.

This test is designed to give an indication of how cryogenic spill protection systems will perform when subjected to a sudden cryogenic jet release.

The dimensions of the test specimen might be smaller than typical items of structure and plant. The liquid cryogenic jet mass flow rates can be substantially less than that which might occur in a credible event. However, the thermal and mechanical loads imparted to the cryogenic spill protection systems from the cryogenic jet release, described in this document, are representative of a cryogenic LNG jet release with hole size 20 mm or less and release pressure less than or equal to 6 barg.

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