

SLOVENSKI STANDARD oSIST prEN ISO 12623:2021

01-julij-2021

Toplotnoizolacijski proizvodi za opremo stavb in industrijske inštalacije -Ugotavljanje vpojnosti vode predoblikovanih cevnih izolacij z delno potopitvijo po kratkotrajnem postopku (ISO/DIS 12623:2021)

Thermal insulating products for building equipment and industrial installations - Determination of short-term water absorption by partial immersion of preformed pipe insulation (ISO/DIS 12623:2021)

Wärmedämmstoffe für die Haustechnik und für betriebstechnische Anlagen -Bestimmung der Wasseraufnahme bei kurzzeitigem teilweisem Eintauchen von vorgeformten Rohrdämmstoffen (ISO/DIS 12623:2021)

oSIST prEN ISO 12623:2021

Produits isolants thermiques pour les équipements des bâtiments et les installations industrielles - Détermination de l'absorption d'eau à court terme par immersion partielle des coquilles isolantes préformées (ISO/DIS 12623:2021)

Ta slovenski standard je istoveten z: prEN ISO 12623

ICS:

91.100.60 Materiali za toplotno in

zvočno izolacijo

Thermal and sound insulating

materials

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Thermal insulating products for building equipment and industrial installations — Determination of short-term water absorption by partial immersion of preformed pipe insulation

Produits isolants thermiques pour les équipements des bâtiments et les installations industrielles — Détermination de l'absorption d'eau à court terme par immersion partielle des coquilles isolantes préformées

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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).

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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.

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This document was prepared by the European Committee of Standardization (CEN) Technical Committee CEN/TC 88, *Thermal insulating materials and products*, in collaboration with ISO Technical Committee ISO/TC 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 1, *Test and measurement methods*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 12623:2011), which has been technically revised.

The main changes compared to the previous edition are as follows:

- combination of EN 13472:2012 and ISO 12623:2011 in one document;
- Clause 3, Terms and definitions, was added and the numbering of the following clauses was changed accordingly;
- Table A.1 was technically revised;
- editorial revision.

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.

This International Standard is one of a series of standards which specify test methods for determining dimensions and properties of thermal insulating materials and products. The original EN 13472 supports a series of product standards for thermal insulating materials and products which derive from the Council Directive of 21 December 1988 on the approximation of laws, regulations and administrative provisions

of the Member States relating to constructive products (Directive 89/106/EEC) through the consideration of the essential requirements.

This International Standard is one of a series of existing European Standards on test methods for products used to insulate building equipment and industrial installations which is comprised of the following group of International Standards:

ISO standard	Title	Respective EN standard
ISO 12623	Thermal insulating products for building equipment and industrial installations — Determination of short-term water absorption by partial immersion of preformed pipe insulation	EN 13472:2012
ISO 12624	Thermal insulation products — Determination of trace quantities of water soluble chloride, fluoride, silicate, sodium ions and pH	EN 13468:2001
ISO 12628	Thermal insulating products for building equipment and industrial installations — Determination of dimensions, squareness and linearity of preformed pipe insulation	EN 13467:2018
ISO 12629	Thermal insulating products for building equipment and industrial installations — Determination of water vapour transmission properties of preformed pipe insulation	EN 13469:2012
ISO 18096	Thermal insulating products for building equipment and industrial installations — Determination of maximum service temperature for preformed pipe insulation dards.iteh.ai	EN 14707:2012
ISO 18097	Thermal insulating products for building equipment and industrial installations — Determination of maximum service temperature https://standards.iteh.ai/catalog/standards/sist/4260bcf4-a9c5-420c-92bb-	EN 14706:2012
ISO 18098	Thermal insulating products for building equipment and industrial installations — Determination of the apparent density of preformed pipe insulation	EN 13470:2001
ISO 18099	Thermal insulating products for building equipment and industrial installations — Determination of the coefficient of thermal expansion	EN 13471:2001

A further series of existing European Standards on test methods was adopted by ISO. This "package" of standards comprises the following group of interrelated standards:

ISO standard	Title	Respective EN standard
ISO 12344	Thermal insulating products for building applications — Determination of bending behaviour	EN 12089
ISO 12968	Thermal insulation products for building applications — Determination of the pull-off resistance of external thermal insulation composite systems (ETICS) (foam block test)	EN 13495
ISO 29465	Thermal insulating products for building applications — Determination of length and width	EN 822
ISO 29466	$Thermal\ insulating\ products\ for\ building\ applications\\ Determination$ of thickness	EN 823
ISO 29467	Thermal insulating products for building applications — Determination of squareness	EN 824

ISO standard	Title	Respective EN standard
ISO 29468	Thermal insulating products for building applications — Determination of flatness	EN 825
ISO 29469	Thermal insulating products for building applications — Determination of compression behaviour	EN 826
ISO 29470	Thermal insulating products for building applications — Determination of the apparent density	EN ISO 29470
ISO 29471	Thermal insulating products for building applications — Determination of dimensional stability under constant normal laboratory conditions (23 °C/50 % relative humidity)	EN 1603
ISO 29472	Thermal insulating products for building applications — Determination of dimensional stability under specified temperature and humidity conditions	EN 1604
ISO 29764	Thermal insulating products for building applications — Determination of deformation under specified compressive load and temperature conditions	EN 1605
ISO 29765	Thermal insulating products for building applications — Determination of tensile strength perpendicular to faces	EN 1607
ISO 29766	Thermal insulating products for building applications—Determination of tensile strength parallel to faces dards.iteh.ai	EN 1608
ISO 29767	Thermal insulating products for building applications — Determination of short-term water absorption by partial immersion 1	EN ISO 29767
ISO 29768	Thermal insulating products for building applications.—Determination of linear dimensions of test specimens	EN 12085
ISO 29769	Thermal insulating products for building applications — Determination of behaviour under point load	EN 12430
ISO 29770	Thermal insulating products for building applications — Determination of thickness for floating-floor insulating products	EN 12431
ISO 29771	Thermal insulating materials for building applications — Determination of organic content	EN 13820
ISO 29803	Thermal insulation products for building applications — Determination of the resistance to impact of external thermal insulation composite systems (ETICS)	EN 13497
ISO 29804	Thermal insulation products for building applications — Determination of the tensile bond strength of the adhesive and of the base coat to the thermal insulation material	EN 13494
ISO 29805	Thermal insulation products for building applications — Determination of the mechanical properties of glass fibre meshes	EN 13496
ISO 16534	Thermal insulating products for building applications — Determination of compressive creep	EN ISO 16534
ISO 16535	Thermal insulating products for building applications — Determination of long-term water absorption by immersion	EN ISO 16535
ISO 16536	Thermal insulating products for building applications — Determination of long-term water absorption by diffusion	EN ISO 16536

ISO standard	Title	Respective EN standard
ISO 16537	Thermal insulating products for building applications — Determination of shear behaviour	EN 12090
ISO 16544	Thermal insulating products for building applications — Conditioning to moisture equilibrium under specified temperature and humidity conditions	EN 12429
ISO 16545	Thermal insulating products for building applications — Determination of behaviour under cyclic loading	EN 13793
ISO 16546	Thermal insulating products for building applications — Determination of freeze-thaw resistance	EN 12091

This International Standard has been prepared for products used to insulate building equipment and industrial installations, but it may also be applied to products used in other areas.

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Thermal insulating products for building equipment and industrial installations — Determination of short-term water absorption by partial immersion of preformed pipe insulation

1 Scope

This International Standard specifies the equipment and procedures for determining the short-term water absorption of preformed pipe insulation by partial immersion in water. It is applicable to thermal insulating products.

NOTE It is intended to simulate the water absorption caused by exposure to rain for 24 h during product installation.

If the pipe insulation is cut from a flat product, then the short-term water absorption by partial immersion can be obtained from tests carried out on the flat product with similar properties in accordance with ISO 29767, provided that the test is carried out in the direction giving the highest water uptake.

This International Standard has been prepared for products used to insulate building equipment and industrial installations, but it may also be applied to products used in other areas.

No existing International Standards supersede this one

2 Normative references oSIST prEN ISO 12623:2021 https://standards.iteh.ai/catalog/standards/sist/4260bcf4-a9c5-420c-92bb-

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 12628, Thermal insulating products for building equipment and industrial installations — Determination of dimensions, squareness and linearity of preformed pipe insulation

ISO 29767, Thermal insulating products for building applications — Determination of short-term water absorption by partial immersion

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

4 Principle

The short-term water absorption by partial immersion is determined by measuring the change in mass of a test specimen, the lower part of which is in contact with water for a period of 24 h.