



# SLOVENSKI STANDARD SIST EN ISO 10807:2001

01-november-2001

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**Cevovodi - Valovita sestavljena gibljiva kovinska cev za zaščito električnih vodnikov v eksplozivni atmosferi (ISO 10807:1994)**

Pipework - Corrugated flexible metallic hose assemblies for the protection of electrical cables in explosive atmosphere (ISO 10807:1994)

Rohrleitungen - Flexible gewellte metallische Schlauchleitungen für den Schutz elektrischer Leitungen in explosionsgefährdeter Atmosphäre (ISO 10807:1994)

Tuyauteries - Tuyauteries métalliques flexibles onduleuses destinées à la protection de câbles électriques dans les atmosphères explosives (ISO 10807:1994)

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**Ta slovenski standard je istoveten z: EN ISO 10807:1996**

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**ICS:**

29.260.20	Električni aparati za eksplozivna ozračja	Electrical apparatus for explosive atmospheres
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**SIST EN ISO 10807:2001**

**en**

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EUROPEAN STANDARD

EN ISO 10807

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1996

ICS 29.260.20

Descriptors: electrical installation, explosion proofing, hoses, metal hoses, corrugated hosepipes, specifications, materials specifications, dimensions, tests, designation, marking

English version

**Pipework - Corrugated flexible metallic hose  
assemblies for the protection of electrical cables  
in explosive atmosphere (ISO 10807:1994)**

Tuyauteries - Tuyauteries métalliques flexible  
onduleuses destinées à la protection de câbles  
électriques dans les atmosphères explosives  
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This European Standard was approved by CEN on 1996-01-06. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

## Foreword

The text of the International Standard from ISO/TC 5 "Ferrous metal pipes and metallic fittings" of the International Organization for Standardization (ISO) has been taken as European Standard by the Technical Committee EC/ISS/TC 29 "Steel tubes and fittings for steel tubes".

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 May 1997, and conflicting national standards shall be withdrawn at the latest by May 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

### Endorsement notice

The text of the International Standard ISO 10807:1994 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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**Annex ZA (normative)**  
**Normative references to international publications**  
**with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 6708	1995	Pipework components - Definition and selection of DN (nominal size)	EN ISO 6708	1995

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INTERNATIONAL  
STANDARD

**ISO**  
**10807**

First edition  
1994-08-15

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**Pipework — Corrugated flexible metallic  
hose assemblies for the protection of  
electrical cables in explosive atmospheres**

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*Tuyauteries — Tuyauteries métalliques flexibles onduleuses destinées à  
la protection de câbles électriques dans les atmosphères explosives*

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Reference number  
ISO 10807:1994(E)

**ISO 10807:1994(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.

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.

International Standard ISO 10807 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Subcommittee SC 11, *Flexible interlocked and convoluted metallic hoses*.

Annexes A and B form an integral part of this International Standard. Annex C is for information only.

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International Organization for Standardization  
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Printed in Switzerland

# Pipework — Corrugated flexible metallic hose assemblies for the protection of electrical cables in explosive atmospheres

## 1 Scope

This International Standard specifies the design characteristics of corrugated flexible metallic hose which can be used to protect electrical wire and cable in explosive atmospheres or atmospheres where there is a risk of fire. These hoses can be used as static protection or for the protection of cables moved infrequently, occasionally, or less than once week.

This International Standard also provides instructions for the use of these hoses (see annex A) and the tests required for type approval (see annex B).

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7-1:1994, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation.*

ISO 427:1983, *Wrought copper-tin alloys — Chemical composition and forms of wrought products.*

ISO 683-13:1986, *Heat-treatable steels, alloy steels and free-cutting steels — Part 13: Wrought stainless steels.*

ISO 1634-1:1987, *Wrought copper and copper alloy plate, sheet and strip — Part 1: Technical conditions of delivery for plate, sheet and strip for general purposes.*

ISO 4948-1:1982, *Steels — Classification — Part 1: Classification of steels into unalloyed and alloy steels based on chemical composition.*

ISO 4948-2:1981, *Steels — Classification — Part 2: Classification of unalloyed and alloy steels according to main quality classes and main property or application characteristics.*

ISO 6708:—<sup>1)</sup>, *Pipe components — Definition of nominal size (DN).*

ISO 7369:—<sup>2)</sup>, *Pipework — Flexible metallic hoses — Vocabulary of general terms.*

## 3 Definitions

For the purposes of this International Standard, the definitions given in ISO 7369 apply.

## 4 Manufacturing process

The process for manufacturing leakproof corrugated flexible metallic hose complying with this International Standard is at the discretion of the manufacturer.

1) To be published. (Revision of ISO 6708:1980)

2) To be published. (Revision of ISO 7369:1983)