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STANDARD

10807

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

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



Reference number
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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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.*

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

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

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:—¹⁾, *Pipe components — Definition of nominal size (DN).*

ISO 7369:—²⁾, *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.