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Steel and steel products — Inspection documents

Aciers et produits sidérurgiques — Documents de contrôle



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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. 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. 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.

The committee responsible for this document is ISO/TC 17, *Steel*, Subcommittee SC 20, *General technical delivery conditions, sampling and mechanical testing methods*.

This second edition cancels and replaces the first edition (ISO 10474:1991), which has been technically revised.

Steel and steel products — Inspection documents

1 Scope

This International Standard defines the different types of inspection documents supplied to the purchaser, in accordance with the requirements of the order, for the delivery of steel products.

This International Standard is to be used in conjunction with other International Standards which specify the general technical delivery conditions:

- for steel and steel products, see ISO 404;
- for steel castings, see ISO 4990.

NOTE This International Standard can also apply to other products.

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 404:2013, *Steel and steel products — General technical delivery requirements*

ISO 4990, *Steel castings — General technical delivery requirements*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

non-specific inspection

inspection carried out by the manufacturer in accordance with his own procedures, to verify that products made by the same manufacturing process meet the requirements of the order

[SOURCE: ISO 404:2013]

Note 1 to entry: The products inspected and tested can be different from the products actually supplied

3.2

specific inspection

inspection carried out, before delivery, in accordance with the product specification, on the products being supplied or on test units of which the products are part, to verify that these products meet the requirements of the order

[SOURCE: ISO 404:2013]

3.3

product specification

complete detailed technical requirements relevant for the order, stated in written form, e.g. referenced standards or other specifications

3.4

manufacturer

organization that manufactures the respective products according to the requirements of the order and to properties specified in the referenced product specification

**3.5
intermediary**

organization that is supplied with products by the manufacturers and that then, in turn, supplies them without further processing or after processing without changing the properties specified in the purchase order and referenced product specification

Note 1 to entry: Examples of intermediaries can be steel service centres and stockists.

4 Inspection documents based on non-specific inspection

4.1 Declaration of compliance with the order “2.1”

Document issued by the manufacturer declaring that the products supplied comply with the requirements of the order, without test results.

4.2 Test report “2.2”

Document issued by the manufacturer declaring that the products supplied comply with the requirements of the order and in which test results are supplied based on non-specific inspection.

NOTE In nations or districts where submission of inspection certificate 2.3 of ISO 10474:1991 is specified in product standards, 2.3 can be used until the product standard is revised.

5 Inspection documents based on specific inspection

5.1 Inspection certificate 3.1

Document issued by the manufacturer declaring that the products supplied comply with the requirements of the order and in which test results are supplied from specific inspection.

The test unit and the tests carried out are defined by the product specification and/or the order.

It shall be permissible for the manufacturer to transfer to the inspection certificate 3.1 relevant test results obtained by specific inspection on primary incoming products provided that the manufacturer operates traceability procedures and can provide the corresponding inspection documents required.

The document shall be validated by the manufacturer’s authorized inspection representative, independent of the manufacturing department.

NOTE 1 In ISO 10474:1991, replaced by the current edition, the designation for this document is 3.1.B.

NOTE 2 In nations or districts where submission of inspection certificate 3.1 B is specified in product standards, 3.1B instead of 3.1 can be used.

5.2 Inspection certificate 3.2

Document issued by the manufacturer declaring that the products supplied comply with the requirements of the order and in which test results are supplied from specific inspection.

The test unit and the tests carried out are defined by the product specification and/or the order.

It shall be permissible for the manufacturer to transfer to the inspection certificate 3.2 relevant test results obtained by specific inspection on primary incoming products provided that the manufacturer operates traceability procedures and can provide the corresponding inspection documents required.

The inspection certificate shall be validated by both the manufacturer’s authorized representative and the purchaser’s authorized representative or by an inspector designated by a third party.

6 Inspection documents supplied by an intermediary

When a product is supplied by an intermediary, the original or a copy of the manufacturer's inspection document as specified in this International Standard shall be submitted to the purchaser. No change or addition to the inspection document is permitted.

Copying (e.g. photocopying, scanning or similar techniques) of the original inspection document is permitted provided that

- traceability procedures are operated;
- the original document is available on request.

If the intermediary has changed the identification, dimensions or quantity of the product in any way, an additional document shall be supplied for these new conditions, including suitable means of identification of the product, in order to ensure the traceability between the product and the documentation (see ISO 404). This shall also apply to all special requirements not included in the manufacturer's inspection document. A modification of steel grade designation by the intermediary is not allowed, even if new testing is carried out.

Any organization that during processing changes the metallurgical state of the product is considered as a product manufacturer.

7 Validation of inspection documents

All the inspection documents defined in this International Standard shall be validated by the person(s) responsible for this and their name(s) and position(s) shall be given. A signature is not required. Additional information on copies (see [Clause 6](#)) shall be validated in the same way.

The retention and transmission of documents shall be either in electronic data or paper format.

8 Summary of documents

A summary of documents covered by this International Standard is given in [Table 1](#).

Table 1 — Summary of inspection documents

Standard designation	Name of the document	Type of inspection	Contents of document	Document validated by
2.1	Declaration of compliance with the order	Non-specific	Manufacturer's declaration of compliance with the order without test results	The manufacturer
2.2	Test report		Manufacturer's declaration of compliance with the order, with test results based on non-specific inspection	
3.1	Inspection certificate 3.1	Specific	Manufacturer's declaration of compliance with the order, with test results based on specific inspection	The manufacturer's authorized inspection representative independent of the manufacturing department
3.2	Inspection certificate 3.2			The manufacturer's authorized inspection representative and either purchaser's authorized representative or by an inspector designated by a third party.

Bibliography

- [1] ISO/NP 16228, *Fasteners — Certificates — Test reports*

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