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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Copper and copper alloys — Selection and preparation of samples for chemical analysis —

Part 2 :

Sampling of wrought products and castings

Cuivre et alliages de cuivre — Sélection et préparation des échantillons pour l'analyse chimique —

Partie 2 : Échantillonnage des produits corroyés et des produits moulés

Reference number
ISO 1811-2: 1988 (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 approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1811-2 was prepared by Technical Committee ISO/TC 26, *Copper and copper alloys*.

Together with ISO 1811-1 and 1811-3, it cancels and replaces ISO Recommendation R 1811 : 1971, of which it constitutes a technical revision.

ISO 1811 consists of the following parts, under the general title *Copper and copper alloys — Selection and preparation of samples for chemical analysis*:

- *Part 1 : Sampling of cast unwrought products*
- *Part 2 : Sampling of wrought products and castings*
- *Part 3 : Sampling of cathodes*

Copper and copper alloys — Selection and preparation of samples for chemical analysis —

Part 2 : Sampling of wrought products and castings

1 Scope

This part of ISO 1811 specifies methods for the selection and preparation of samples for chemical analysis of copper and copper alloys in the form of wrought products and castings.¹⁾

The methods specified in this part of ISO 1811 apply to copper and copper alloys in the following forms, and are intended to determine compliance with the requirements for their chemical composition:

- a) wrought products, including plate, sheet, strip, rod, bar, tube, profile, forgings, etc.;
- b) castings, including sand castings, chill castings, die castings, continuous castings, centrifugal castings.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1811. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 1811 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 197-1 : 1983, *Copper and copper alloys — Terms and definitions — Part 1: Materials.*

ISO 197-3 : 1983, *Copper and copper alloys — Terms and definitions — Part 3: Wrought products.*

ISO 197-4 : 1983, *Copper and copper alloys — Terms and definitions — Part 4: Castings.*

ISO 1811-1 : 1988, *Copper and copper alloys — Selection and preparation of samples for chemical analysis — Part 1: Sampling of unwrought products.*

3 Definitions

For the purposes of this part of ISO 1811, the definitions for copper and copper alloys in ISO 197-1, for wrought products in ISO 197-3 and for castings in ISO 197-4 apply.

In addition, the following definitions apply.

3.1 lot: Unless otherwise agreed between supplier and purchaser, for the purpose of sampling, a lot shall be defined as follows:

3.1.1 lot of wrought products: Material of the same alloy and of a particular form, such as plate, sheet, strip, rod, bar, tube, profile, wire or forgings, made during the same production sequence under uniform conditions.

Materials processed under different conditions shall be considered as separate lots.

3.1.2 lot of castings: Material of a particular form produced by, for instance, sand casting, chill casting, die casting or centrifugal casting from a single melting furnace charge or from a particular cycle of a continuous melting furnace.

3.2 sampling unit: An individual wrought product or casting selected from a lot.

3.3 gross sample: The total amount of all sampling units taken from a lot.

3.4 test sample: A sample prepared from the gross sample and from which the test portions will be taken.

3.5 test portion: The quantity of material taken from the test sample and on which the analysis is actually carried out.

1) Sampling theory is explained in annex A of ISO 1811-1.