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Zinc alloy ingots — Selection and preparation of samples for chemical analysis

Alliages de zinc en lingots — Prélèvement et préparation des échantillons pour l'analyse chimique

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

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.

International Standard ISO 3752 was drawn up by Technical Committee V F W ISO/TC 18, Zinc and zinc alloys, and was circulated to the Member Bodies in (standards.iteh.ai) June 1975.

It has been approved by the Member Bodies of the following countries 576

https://standards.iteh.ai/catalog/standards/sist/e88863d8-9b07-46fa-8249-France fbdd9680a031/iso-3752-1976

Australia

Romania Austria Germany

Belgium India South Africa, Rep. of

Brazil Ireland Spain Bulgaria Italy Turkey

Canada* United Kingdom Japan

Czechoslovakia U.S.S.R. Mexico Egypt, Arab Rep. of Norway Yugoslavia

No Member Body expressed disapproval of the document.

Canada approved the International Standard with the exception of clause 4.

Zinc alloy ingots — Selection and preparation of samples for chemical analysis

iTeh STANDARD PREVIEW

(standards.iteh.ai)

1 SCOPE AND FIELD OF APPLICATION

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It covers only the selection and preparation of samples from zinc alloy ingots. Alternatively, the interested parties may agree to select samples of zinc alloys in the liquid state during production.

2 REFERENCE

ISO/R 301, Zinc alloy ingots.

3 SELECTION OF INGOTS

3.1 General

3.1.1 The samples shall be selected from batches, each batch being composed of ingots of the same composition, as specified in clause 3 of ISO/R 301.

3.1.2 Following agreement between the interested parties, This International Standard specifies the requirements for:1976 each consignment may be divided into a series of batches, the selection and preparation of samples for chemicals/sist/e888338-9007-4618-8249-nain not less than 5 t. Any batch.

3.2 Procedure

3.2.1 From each batch of ingots select, at random, one ingot from every 50. The number of ingots selected shall be not less than five.

NOTE - When the consignment is made up of less than five ingots, all shall be used in making the selection.

3.2.2 Carefully clean the surface of each ingot selected, to remove all dirt. Apply the consignee's mark by means of a die-stamp.

4 SELECTION OF SAMPLES

The selection of samples for chemical analysis shall be carried out by drilling in accordance with the following procedure:

- Arrange the selected ingots flat, side by side, upside down with reference to the position occupied in the ingot mould, in groups of a maximum of five ingots.
 Ensure that the casting marks are arranged in the same way for each of the ingots.
- In each group, draw a diagonal across the rectangle thus formed.
- With the aid of a tungsten carbide drill of approximately 15 mm diameter and without the use of a lubricant, drill each ingot right through at three points on the diagonal at distances from the long side of the ingot of one-quarter, one-half and three-quarters of the length of the short side (see the figure).

NOTE — In the case where the exact position of the point to be drilled coincides with a notch in the ingot, choose another point as close as possible.

 Carry out the drilling without heating the metal to the point of oxidation, in such a way as to obtain drillings of a thickness between 0,2 and 0,5 mm. Collect all the drillings and break them up if necessary.

NOTE - In the case of batches of less than 5 t, a sufficient number of drillings must be provided for the mass of the sample to amount to at least 1 kg.

5 PREPARATION OF SAMPLES

Homogenize the sample by mixing, as completely as possible, all the drillings originating from the ingots from a single batch.

Take a mean sample having a mass of at least 1 kg.

Divide the mean sample into four portions of approximately 250 q.

Place each of these portions in a suitable container. Close, label and seal the container. One portion is intended for the supplier, another for the purchaser; the two others are intended to be stored by the purchaser and supplier respectively at their premises, in case a subsequent check or arbitration analysis is required.

ISO 3752:1976

