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Zinc

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SAMPLING OF ZINC METAL AND ZINC ALLOYS FOR CHEMICAL ANALYSIS

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THE FOLLOWING INDUSTRIAL, SCIENTIFIC AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Aluminium Development Council
Australasian Institute of Mining and Metallurgy
Australian Lead Development Association
Australian Mineral Development Laboratories
Australian Tin Information Centre
Australian Zinc Development Association
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Copper Producers Association of Australia
Department of Defence
Electricity Supply Association of Australia
Metal Trades Industry Association of Australia
National Association of Testing Authorities
Railways of Australia Committee
Royal Australian Chemical Insitute

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PREFACE

This standard method for the sampling of zinc metal and zinc alloys was prepared by the Association's Committee for the Analysis of Metals under the direction of the Chemical Standards Board.

The technique used for taking samples is as important as the actual analytical method. Therefore sampling techniques for zinc and zinc alloys need to be defined in order to ensure that the procedures used in different laboratories analysing these metals will be as uniform as possible.

This standard has been prepared for use (by cross-reference) in conjunction with the analytical standards for zinc and its alloys published in the AS 1329 series.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
METHOD FOR THE SAMPLING OF ZINC METAL AND ZINC ALLOYS FOR CHEMICAL ANALYSIS

1 SCOPE. This standard sets out methods for the sampling of zinc metal and zinc alloys for the determination of their chemical composition. The samples are taken either from cast forms or from the molten metal or molten alloy.

2 DEFINITIONS. For the purpose of this standard, the following definitions apply:

Primary sample—the ingots or slabs selected from the original batch, or the molten metal or molten alloy, from which the laboratory sample is prepared.

Laboratory sample—the material prepared from the primary sample, to be submitted for analysis.

Test sample—a suitable part of the laboratory sample, containing the same components in the same proportions as they occur in the relatively large mass of the original batch or batches of material, or in the molten metal or molten alloy.

3 SELECTION OF PRIMARY SAMPLE.

3.1 Selection of Primary Sample from Cast Forms. From each batch of slabs, ingots, blocks, etc having the same composition, select at random not less than five slabs, ingots, blocks, etc for sampling by the procedure given in Clause 4. When there are sufficient units in the batch, select one from each 50.

If a batch contains less than five units, all of these shall be sampled.

3.2 Selection of Primary Sample from Molten Metal or Molten Alloy. A primary sample shall be taken from the molten metal or molten alloy and shall be cast into granules, by the procedure described in Clause 5, suitable for use in chemical analysis.

4 PREPARATION OF LABORATORY SAMPLE FROM SLABS, INGOTS, BLOCKS, ETC.

4.1 From Primary Samples Suitable for Drilling. A laboratory sample of more than 1 kg shall be obtained from slabs or ingots by drilling in accordance with the following procedure: