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Australian Standard 1213—1982

IRON AND STEEL— METHODS OF SAMPLING



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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
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PREFACE

This edition of this standard was prepared by the Association's Committee on the Analysis of Metals, under the direction of the Chemical Standards Board, to supersede AS 1213—1972. Revision of the 1972 edition was undertaken as a result of changes in the technology of sampling iron and steel.

The following are the main changes from the 1972 edition:

- (a) Deletion of all reference to the sampling of ferroalloys; this will be the subject of a separate standard to be prepared by a committee on ferroalloys.
- (b) Deletion of all reference to the sampling of permanent magnet alloys.
- (c) Inclusion of a section on the taking of immersion samples from the molten metal.
- (d) Inclusion of a section on the taking of samples for optical emission and X-ray fluorescence spectrometry.
- (e) Inclusion of a section on the taking of wedge samples.

The standard is intended to assist in the specification of sampling procedures to the mutual benefit of the purchaser and the supplier. The methods described for the selection and preparation of samples for analysis are those which have been found most satisfactory in practice; they should be considered as a guide to sound sampling procedure rather than a rigid specification, and modification may be agreed between the purchaser and the supplier.

This standard is primarily intended for use in conjunction with separate parts of AS K1, Methods for the Sampling and Analysis of Iron and Steel, and AS 1050, Methods for the Analysis of Iron and Steel (Metric Units).

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
IRON AND STEEL—METHODS OF SAMPLING

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard sets out methods for the sampling for chemical analysis of iron and steel, both as liquid metal and solid metal. Methods for sampling of molten iron and steel for analysis by optical emission spectrometry and X-ray fluorescence spectrometry are also included.

NOTE: Methods for sampling molten steel for the determination of hydrogen content are given in AS 2256.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1152	Test Sieves
AS 1487	Abrasive Grain Size
AS 2256	Method of Sampling of Molten Steel and Preparation of Samples for Determination of Hydrogen Content.