

Australian Standard[®]

Coal preparation

**Part 3: Magnetite for coal
preparation plant use—
Test methods**

This Australian Standard was prepared by Committee MN/1, Coal and Coke. It was approved on behalf of the Council of Standards Australia on 30 August 1994 and published on 5 December 1994.

The following interests are represented on Committee MN/1:

Australasian Institute of Mining and Metallurgy
Australian Chamber of Commerce and Industry
Australian Coal Association
Australian Coal Industry Research Laboratories
Australian Coal Preparation Society
Australian Institution of Energy
Australian Mining Industry Council
Bureau of Steel Manufacturers of Australia
CSIRO, Division of Coal and Energy Technology
Department of Minerals and Energy, Qld
Electricity Supply Association of Australia
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PREFACE

This Standard was prepared by the Standards Australia Committee on Coal Preparation, under the direction of the Committee on Coal and Coke. The following methods are provided:

- (a) Sampling and determination of 'as-received' moisture.
- (b) Determination of relative density.
- (c) Determination of total iron content.
- (d) Determination of iron(II) content.
- (e) Determination of magnetics content.

This Standard is based on ISO 8833:1989, *Magnetite for use in coal preparation—Test methods*.

The objective of this Standard is to provide those required to test magnetite with standardized procedures that will allow meaningful comparison between results generated in different locations.

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STANDARDS AUSTRALIA

Australian Standard

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out methods for sampling bulk and bagged magnetite, total moisture determination, and determination of density, total iron, iron(II), particle size and magnetics content.

NOTE: For information on laboratory safety, reference should be made to the relevant parts of AS 2243 and AS 2508.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- | | |
|------------|--|
| 1038 | Coal and coke—Analysis and testing |
| 1038.11 | Part 11: Coal—Forms of sulfur |
| 1152 | Specification for test sieves |
| 2162 | Code of practice for the use of volumetric glassware |
| 2243 | Safety in laboratories |
| 2378 | Density bottles |
| 2418 | Glossary of terms relating to solid mineral fuels |
| 2508 | Safe storage and handling information cards for hazardous materials |
| 3881 | Higher rank coal—Size analysis |
| ISO | |
| 2597-1 | Iron ores—Determination of total iron content, Part 1: Tin(II) chloride reduction—Titrimetric method |
| 9507 | Iron ores—Determination of total iron content—Titanium(III) chloride reduction methods |
| 9508 | Iron ores—Determination of total iron content—Silver reduction titrimetric method |

1.3 DEFINITIONS For the purpose of this Standard, the definitions given in AS 2418 apply.