

Australian Standard[®]

Coal and coke—Sampling

Part 1: Coal—Sampling procedures



This Australian Standard® was prepared by Committee MN-001, Coal and Coke. It was approved on behalf of the Council of Standards Australia on 2 December 2008. This Standard was published on 28 January 2009.

The following are represented on Committee MN-001:

- Australasian Institute of Mining and Metallurgy
 - Australian Building Codes Board
 - Australian Coal Association
 - Australian Coal Preparation Society
 - Coalfield Geology Council of NSW
 - CSIRO, Energy Technology
 - Department of Mines and Energy, Qld
 - National Generators Forum
 - Minerals Council of Australia
 - University of Newcastle
 - University of New South Wales
 - University of Queensland
-

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Part 1: Coal—Sampling procedures

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PREFACE

This Standard was prepared by the Standards Australia Committee MN-001, Coal and Coke, as a revision of AS 4264.1—1995, *Coal and coke—Sampling, Part 1: Higher rank coal—Sampling procedures* and AS 4264.3—1996, *Coal and coke—Sampling, Part 3: Lower rank coal—Sampling procedures*.

This Standard incorporates Amendment No. 1 (September 2011). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

Other Standards in this series are as follows:

Part 2: Coke—Sampling procedures

Part 4: Determination of precision and bias

Part 5: Guide to the inspection of mechanical sampling systems

This edition revises and amalgamates the content of AS 4264.1—1995 and AS 4264.3—1996 in order to provide a single standard on sampling procedures for all ranks of coal.

In preparing this revision, reference was made to ISO 13909, Parts 1 to 4 on the mechanical sampling of hard coal and includes tables and information obtained from those standards.

The objective of this Standard is to provide those responsible for sampling coal with a set of rules that will ensure that the subsequent testing of the coal is representative of the full quantity of coal being sampled.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the Appendices to which they apply. A normative appendix is an integral part of a Standard, whereas an informative appendix is for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard
Coal and coke—Sampling

Part 1: Coal—Sampling procedures

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out methods for the sampling of coal from moving streams and stationary situations, including stopped-belt sampling, for both routine and special purposes, to provide samples for general analysis and for the determination of total moisture.

The provisions of this Standard specifically include stopped-belt sampling. Although this Standard is intended to cover all coal sampling from moving streams, the procedures recommended may not be applicable in cases of extreme segregation of material, as found with very wet coal owing to moisture run-off, or with very dry coal owing to generation of dust. In such cases, it may be necessary to revert to stopped-belt sampling.

Stopped-belt sampling is the reference method against which other sampling procedures are compared.

Methods for the preparation of samples are also included in this Standard, and it is recognized that some on-line sampling installations perform part of the sample preparation.

Sampling from coal seams is covered in AS 2617, and is excluded from this Standard.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1038	Coal and coke—Analysis and testing
1038.1	Part 1: Higher rank coal—Total moisture
1038.10.0	Part 10.0 Determination of trace elements—Guide to the determination of trace elements
1038.12.3	Part 12.3: Higher rank coal—Caking and coking properties—Dilatation
1038.12.4.1	Part 12.4.1: Higher rank coal—Caking and coking properties—Plasticity—Continuous-torque Gieseler method
1038.19	Part 19: Higher rank coal—Abrasion index
1038.20	Part 20: Higher rank coal—Hardgrove grindability index
1152	Specification for test sieves
1681	Safety requirements for electrically heated Type 1 ovens in which flammable volatiles occur
2267	Guide to the conduct of pilot coke oven tests
2418	Coal and coke—Glossary of terms
2434	Methods for the analysis and testing of lower rank coal and its chars
2434.1	Part 1: Determination of the total moisture content of lower rank coal
2434.3	Part 3: Lower rank coal—Determination of the moisture holding capacity