

Australian Standard™

**Methods for the analysis and testing of
lower rank coal and its chars**

**Part 1: Determination of the total
moisture content of lower rank coal**

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 September 1999 and published on 5 November 1999.

The following interests are represented on Committee MN/1:

Australasian Institute of Mining and Metallurgy
Australian Coal Association
Australian Institute of Energy
Australian Coal Preparation Society
Bureau of Steel Manufacturers of Australia
Coalfield Geology Council of New South Wales
CSIRO, Division of Energy Technology
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PREFACE

This Standard was prepared by the Standards Australia Committee MN/1, Coal and Coke to supersede AS 2434.1, *Methods for the analysis and testing of lower rank coal and its chars*, Part 1: *Determination of the total moisture content of lower rank coal*.

Procedures for the determination of the moisture in coal and coke as set out in AS 1038, *Coal and coke—Analysis and testing*, are not applicable to lower rank coal, because of its high moisture content.

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STANDARDS AUSTRALIA

Australian Standard

Methods for the analysis and testing of lower rank coal and its chars

Part 1: Determination of the total moisture content of lower rank coal

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out three methods for the determination of the total moisture content of lower rank coal. The first method is a two-stage procedure applicable to large (500 g) samples. The second method involves drying under a stream of flowing nitrogen, and is applicable only to laboratory samples with mass of about 10 g. The third method comprises an azeotropic distillation with toluene, and is applicable to a sample mass of 200 g to 500 g.

This Standard is applicable to bed-moist coals or analysis samples, where the moisture is expected to exceed 15 percent.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1038	Coal and coke—Analysis and testing
1038.16	Part 16: Assessment and reporting of results
1152	Specification for test sieves
2243	Safety in laboratories (series)
2418	Coal and coke—Glossary of terms
2434	Methods for the analysis and testing of lower rank coal and its chars
2434.7	Part 7: Determination of moisture in the analysis sample of lower rank coal
2508	Safe storage and handling information card series
2706	Numerical values—Rounding and interpretation of limiting values
4264	Coal and coke—Sampling
4264.3	Part 3: Lower rank coal—Sampling procedures

1.3 DEFINITIONS

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

1.4 SAFETY

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