

Australian Standard™

**Coal and coke—Analysis and testing**

**Part 8.1: Coal and coke—Chlorine—  
Eschka method**

This Australian Standard was prepared by Committee MN/1, Coal Evaluation. It was approved on behalf of the Council of Standards Australia on 30 September 1999 and published on 5 November 1999.

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The following interests are represented on Committee MN/1:

Australian Institute of Mining and Metallurgy  
Australian Coal Association  
Australian Coal Preparation Society  
Australian Institute of Energy  
Bureau of Steel Manufacturers of Australia  
Coalfield Geology Council of New South Wales  
CSIRO, Division of Energy Technology  
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Originated as part of AS K152.8—1965  
(endorsement of BS 1016.8—1959 without amendment).  
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## PREFACE

This Standard was prepared by the Standards Australia Committee MN/1, Coal and Coke, to supersede AS 1038.8.1—1992.

This revision confirms the method for the determination of the chlorine content of coal and coke. Editorial changes have been made to bring the Standard into line with current style.

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**STANDARDS AUSTRALIA****Australian Standard****Coal and coke—Analysis and testing****Part 8.1: Coal and coke—Chlorine—Eschka method****1 SCOPE**

This Standard sets out a method for the determination of the chlorine content in coal and coke by the Eschka procedure.

NOTE: The presence of residual halogen-bearing organic float-and-sink liquids in coal samples will affect the determination of chlorine.

**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
2243	Safety in laboratories (series)
2418	Coal and coke—Glossary of terms
2508	Safe storage and handling information card (series)
2706	Numerical values—Rounding and interpretation of limiting values
4264	Coal and coke—Sampling
4264.1	Part 1: Higher rank coal—Sampling procedures
4264.2	Part 2: Coke—Sampling procedures

**3 DEFINITIONS**

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

**4 PRINCIPLE**

A known mass of the sample is ignited in intimate contact with Eschka mixture in an oxidizing atmosphere at 675°C, to remove the organic material and to convert all the chlorine to chloride. This is then extracted in nitric acid and determined by a modified Volhard method.

**5 SAFETY**

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