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Methods for

Analysis and testing of coal and coke —

Part 108: Tests special to coke —

Section 108.2 Determination of Micum
and Irsid indices

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Solid Mineral Fuels Standards Policy Committee (SFC/-) to Technical Committee SFC/3, upon which the following bodies were represented:

- British Cement Association
- British Coal Corporation
- British Gas plc
- British Steel Industry
- Electricity Industry in United Kingdom
- GAMBICA (BEAMA Ltd.)
- Institute of British Foundrymen
- Institute of Petroleum
- Power Generation Contractors' Association (BEAMA Ltd.)

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Foreword

This Section of BS 1016 has been prepared under the direction of the Solid Mineral Fuels Standards Policy Committee. Part 108 is a revision of the 1980 edition of BS 1016-13, which will be withdrawn when Sections 108.5 and 108.6 are published. This Section replaces 4.3 of BS 1016-13:1980, from which the principal changes are as follows.

- a) The test sample is now dried, if necessary, so that its moisture content is lower than 5 % (m/m).
- b) The sieving of the test portion after rotation in the drum is now carried out using only those test sieves corresponding to the indices to be determined.
- c) The Irsid test is now specified as a separate test involving 500 continuous revolutions of the drum, instead of being an additional test involving a further 400 revolutions after a Micum test (100 revolutions) has been completed.

Part 108 is a further Part numbered under a scheme for rationalizing and restructuring BS 1016. The new series, when complete, will begin with Part 100, which will include a general introduction. The earlier series of Parts is as follows, with the new Part numbers (which will be given to revisions when they are published) in parentheses.

- *Part 1: Total moisture of coal* (Part 101);
- *Part 2: Total moisture of coke* (Part 102);
- *Part 5: Gross calorific value of coal and coke* (Part 105);
- *Part 6: Ultimate analysis of coal* (Part 106);
- *Part 7: Ultimate analysis of coke* (Part 106);
- *Part 8: Chlorine in coal and coke* (Part 106);
- *Part 9: Phosphorus in coal and coke* (Part 106);
- *Part 10: Arsenic in coal and coke* (Part 106);
- *Part 11: Forms of sulphur in coal* (Part 106);
- *Part 14: Analysis of coal ash and coke ash* (Part 114);
- *Part 15: Fusibility of coal ash and coke ash* (Part 113);
- *Part 16: Methods for reporting results* (Part 100);
- *Part 17: Size analysis of coal* (Part 109);
- *Part 18: Size analysis of coke* (Part 110);
- *Part 20: Determination of Hardgrove grindability index of hard coal* (Part 112);
- *Part 21: Determination of moisture-holding capacity of hard coal* (Part 103).

The following Parts in the new series have been published or are in preparation.

- *Part 104: Proximate analysis;*
- *Part 107: Caking and swelling properties of coal;*
- *Part 108: Tests special to coke;*
- *Part 111: Determination of abrasion index of coal.*

Part 108 is divided into six Sections as follows.

- *Section 108.1: Determination of shatter indices;*
- *Section 108.2: Determination of Micum and Irsid indices;*
- *Section 108.3: Determination of bulk density (small container);*
- *Section 108.4: Determination of bulk density (large container);*
- *Section 108.5: Determination of density and porosity¹⁾;*
- *Section 108.6: Determination of critical air blast¹⁾.*

¹⁾ In preparation.