Third edition
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Coke (nominal top size greater than 20 mm) — Size analysis by sieving

Coke (dimension supérieure nominale supérieure à 20 mm*) — Analyse granulométrique par tamisage*

Reference number
ISO 728:1995(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 728 was prepared by Technical Committee ISO/TC 27, *Solid mineral fuels*, Subcommittee SC 3, *Coke*.

This third edition cancels and replaces the second edition (ISO 728:1981), which has been technically revised.

Annex A of this International Standard is for information only.

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Coke (nominal top size greater than 20 mm) — Size analysis by sieving

1 Scope

This International Standard specifies a method for the size analysis of coke, of nominal top size greater than 20 mm, by manual sieving.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 579:1981, *Coke — Determination of total moisture content.*

ISO 1213-2:1992, *Solid mineral fuels — Vocabulary — Part 2: Terms relating to sampling, testing and analysis.*

ISO 2309:1980, *Coke — Sampling.*

ISO 3310-2:1990, *Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate.*

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 1213-2 apply.

4 Apparatus

4.1 Test sieves, complying with ISO 3310-2. The set of sieves used shall have exclusively round holes or exclusively square holes.

NOTE 1 The test sieves should be selected according to the requirements of the test and the characteristics of the sample. If possible, the series of sieves should be selected so that the mass of coke in any size fraction does not exceed 25 % of the total mass of sample being sieved. For ungraded coke, a series of test sieves of nominal hole sizes 125 mm; 100 mm; 80 mm; 71 mm; 63 mm; 50 mm; 40 mm; 31,5 mm; 20 mm and 10 mm may be suitable. For samples containing pieces with a particle size greater than 125 mm, single-hole gauges may be used instead of test sieves. For graded coke, a series of test sieves of nominal hole sizes 50 mm; 45 mm; 40 mm; 35,5 mm; 31,5 mm; 25 mm; 20 mm; 16 mm; 10 mm; 5,6 mm and 2,8 mm may be suitable.

It is important to check the sieves from time to time, using the methods described in ISO 3310-2, to ensure that the hole dimensions are within the specified tolerances. Worn or damaged sieves can give rise to serious errors in size analysis and should be discarded.

4.2 Weighing machine, capable of measuring the mass of the sample to be sieved to the nearest 0,1 %.

5 Sampling and preparation of test sample

Take two gross samples for physical testing in accordance with ISO 2309[1]. Prepare one of these samples for the determination of moisture content in

1) In due course, ISO 2309 will be replaced by ISO 13909-6, *Hard coal and coke — Sampling — Part 6: Coke — Preparation of test samples.*