### INTERNATIONAL STANDARD

ISO 1013

Second edition 1995-07-01

# Coke — Determination of bulk density in a large container

Coke — Détermination de la masse volumique en vrac dans un récipient de grandes dimensions



Reference number ISO 1013:1995(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 termber bodies casting a vote.

International Standard ISO 1013 was prepared by Technoal Committee ISO/TC 27, *Solid mineral fuels*, Subcommittee SC 3, *Coke* 

edition

generated by FLS

This second edition cancels and replaces the (ISO 1013:1975), which has been technically revised.

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## Coke — Determination of bulk density in a large container mis do

#### 1 Scope

This International Standard specifies a method for the oke in a large determination of the bulk density of container such as a wagon or skip.

#### 2 Normative references

The following standards contain provisions through reference in this text, constitute provis of this International Standard. At the time of put cation, 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 567:1995, Coke — Determination of bulk density in a small container.

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

#### 3 Definition

For the purposes of this International Standard, the following definition applies.

3.1 bulk density: The mass of a portion of a solid mineral fuel divided by the volume of the container which is filled by that portion under specified conditions.

#### **Principle** 4

A weighed container of known volume is filled with coke and the increase in mass is determined.

#### Apparatus 5

5.1 Container, such as a wagon or skip, capable of holding at least 3 t of the coke.

5.2 Weighing machine, capable of weighing the container and its contents to an accuracy of 0.2 %.

#### 6 Procedure

Weigh the empty container (5.1) on the weighing machine (5.2). Measure the internal dimensions of the ontainer to the nearest 1 cm and calculate its ca-

NOTE If the container is already fully charged, it should be weighed with the coke first, then be weighed empty and then be masured.

With the commer on a level surface, carefully charge the coke into Quntil pieces of coke project above the top of the container across the whole surface.

Slide a straighted across the top of the container and remove any pieces of coke which obstruct its passage. Weigh the char ed container.

#### Expression of resu 7

The bulk density in a large container ( $\rho_{\rm l}$ ) of the coke, in kilograms per cubic metre, on a dry basis, is given by the equation:

$$\rho_{\rm l} = \frac{m_2 - m_1}{V} \times \frac{100 - M}{100}$$

where

is the mass, in kilograms, of the empty  $m_1$ container;