

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1013

DETERMINATION OF THE BULK DENSITY OF COKE
IN A LARGE CONTAINER

1st EDITION
March 1969

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BRIEF HISTORY

The ISO Recommendation R 1013, *Determination of the bulk density of coke in a large container*, was drawn up by Technical Committee ISO/TC 27, *Solid mineral fuels*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led, in 1966, to the adoption of a Draft ISO Recommendation.

In April 1967, this Draft ISO Recommendation (No. 1146) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Iran	Spain
Austria	Israel	Switzerland
Belgium	Japan	Thailand
Brazil	Korea, Rep. of	Turkey
Canada	Netherlands	U.A.R.
Czechoslovakia	New Zealand	U.S.A.
Denmark	Poland	U.S.S.R.
France	Portugal	Yugoslavia
Germany	Romania	
India	South Africa, Rep. of	

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in March 1969, to accept it as an ISO RECOMMENDATION.

DETERMINATION OF THE BULK DENSITY OF COKE IN A LARGE CONTAINER

1. SCOPE

This ISO Recommendation describes a method for the determination of the bulk density of coke in a large container* such as a railway wagon or skip.

2. PRINCIPLE

A weighed container of known volume is filled with coke in such a way as substantially to prevent breakage. The upper surface of the coke is levelled and the increase in mass is determined.

3. APPARATUS

- 3.1 *Container*, large, such as a railway wagon or skip. The container should hold at least 3 tonnes of the coke.
- 3.2 *Weighing machine*, capable of weighing the container and its contents to an accuracy of 0.2 % or better.

4. SAMPLE

The sample should be representative of the consignment of coke.

5. PROCEDURE

Weigh the empty container. Calculate its internal volume to an accuracy of 1 %.

With the container on a level surface, carefully charge the coke into it until the whole surface of the coke projects above the top of the container. Slide a straight edge across the top of the container and remove any pieces of coke which obstruct its passage. Re-weigh the container.

Carry out a duplicate determination by repeating the procedure, using a subsequent wagon or skip of similar capacity.

* See also ISO Recommendation R 567, *Determination of the bulk density of coke in a small container*.