

STANDARD

**1306**

Fourth edition  
1995-11-15

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**Rubber compounding ingredients — Carbon black (pelletized) — Determination of pour density**

*Ingrédients de mélange du caoutchouc — Noir de carbone (en granules) — Détermination de la masse volumique apparente*



Reference number  
ISO 1306:1995(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 1306 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 3, *Raw materials (including latex) for use in the rubber industry*.

This fourth edition cancels and replaces the third edition (ISO 1306:1987), which has been technically revised.

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# Rubber compounding ingredients — Carbon black (pelletized) — Determination of pour density

**WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.**

## 1 Scope

This International Standard specifies a method for determining the pour density of all types of pelletized carbon blacks for use in the rubber industry.

## 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was 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 edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1124:1988, *Rubber compounding ingredients — Carbon black shipment sampling procedures.*

## 3 Principle

A measured volume of carbon black is weighed and the pour density calculated.

## 4 Apparatus

**4.1 Cylindrical container**, of 1 000 cm<sup>3</sup> capacity when filled to the top and of a recommended 100 mm ± 10 mm diameter, having a uniform height and no pouring lip or deformation of the wall.

Other capacities, such as 624 cm<sup>3</sup>, may be used if it can be shown that the same results are obtained.

**4.2 Straightedge or spatula**, at least 130 mm in length.

**4.3 Balance**, accurate to 0,1 g.

## 5 Procedure

Pour the carbon black into the centre of the tared cylindrical container (4.1) from a height of not more than 50 mm above the rim. Use a large enough excess to form a cone above the rim of the cylindrical container. Level the surface with a single sweep of the straightedge or spatula (4.2) held horizontally, and perpendicular to and in firm contact with the rim of the container. Weigh the container with the carbon black. Determine the mass of the carbon black to the nearest gram.