Bulk density Tester - FLOW METERS

TECHNICAL DATASHEET

These devices allow the determination the apparent density of plastic materials - pellets and powders - through a small dimension opening.

The below collecting cup enables the determination of apparent density (analytical weighing) of a known volume of material.

Flow meter according to ASTM D 1895 Meth. A (10016000)

This tester is primarily used to measure the apparent density of fine granules that can be poured readily through a "V" shaped funnel, the material under test is allowed to flow into a cylindrical cup with a known volume of 100cm³.

- Conical container made of stainless material, with a 9.5-mm Ø hole, equipped with a lower fast lock.
- Stand made of steel and painted with epoxy resins, supporting the above container.
- Collecting cup for the flown material, with a volume of 100 cm3 (± 0.5 cm3), centred, by means of a collar, below the conical container, 38 mm far from the outlet.
- Dimension: 130x200x288 mm
- Weight: 1.5 kg (approx.)

Flow meter according to ISO 60 (10016001)

For the determination of apparent density of moulding materials. The device is a funnel with a conical shape and a total height of 115 mm and include a supporting stand and a collecting cup.
Capacity 100 ml (± 0.5 ml) and 45 mm (± 5 mm) in Ø.
Dimensions: 150x200x420 mm
Weight: 2.0 kg

Other available Flow meters:

Flow meter according to ASTM D 1895 meth. B (10016002)

Cylindrical measuring cup having a volume of 400 + 2 ml and a height of 240 +1 mm.
Funnel having an opening at the bottom with diam.r 25.4 mm mounted 38 mm above the measuring cup .
Overall dimensions: 150x200x520 mm
Weight: 12.0 kg

Flow meter according to ASTM D 1895 meth. C (10016003)

Measuring cylinder 1000 cum
Weight plunger with graduated scale (mm)

Meth B



Meth A Meth C



ISO 60

Reference standard		
ASTM	D1895 Meth. A-B-C	
ISO	60	6186

Code	Description
10016000	ASTM D 1895 Method A Flow meter
10016001	ISO 60 Flow meter
10016002	ASTM D 1895 Method B Flow meter
10016003	ASTM D 1895 Method C Flow meter

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Method	Use	Test
A	For fine granules and powders that can be poured through a small funnel.	Test is performed by pouring the material through a funnel into a cylinder of known volume. The apparent density is calculated by dividing the weight of the material in the cylinder by the volume of the cylinder
B	For coarse, granular materials that either can't be poured or that pour with difficulty through the funnel from Method A.	Test is performed by pouring the material through a funnel into a cylinder of known volume. The apparent density is calculated by dividing the weight of the material in the cylinder by the volume of the cylinder .
C	For coarse flakes, chips, cut fibers or strands that can't be tested with Methods A or B.	Test is performed by pouring the material into a graduated cylinder and allowing a 2300g plunger to pack the material for one minute. The apparent density is taken as the mass of the material divided by the settled volume.