

STANDARD TEST METHOD

BULK DENSITY/VOLUME – NOT TAPPED

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SCOPE:

This method is for determining the untapped (or poured) bulk density and/or the bulk volume of granular or fibrous materials.

APPARATUS:

1. Graduated cylinders - 250 ml capacity, with a 35mm diameter.
2. Balance - accuracy + 0.1 g.
3. Funnel – 125mm across top and 30mm at the bottom.
4. Dish – ceramic or glass

PROCEDURE:

1. Weigh out, to the nearest 0.1 gram, 100 grams of the sample (or a weight as directed on the B8D document).
2. Place funnel in graduated cylinder.
3. Fill the graduated cylinder with the sample, taking care not to tap or settle the material into the cylinder.
4. Read off volume of sample in cc (ml).

CALCULATION:


$$\text{BulkDensity} = \frac{m}{V} \text{ (g/cm}^3\text{)}$$

$$\text{BulkVolume} = \frac{V}{m} \text{ (cm}^3\text{/g)}$$

m = mass of sample in g
V = volume of sample in cc (ml)

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Note: Bulk volume is often quoted as cc/100g

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ISS	REVISION	DATE	DR.	AP'D		
	4.	Converted to Electronic Distribution	06.08.01	KS	LR	SHEET 1 of 1
	5.	Test Method refined	12.03.02	DI	LR	
	6.	Changed name of test to 'Bulk Density/Volume – Not Tapped. Updated 'Scope, procedure and calculation to include bulk density measurement.	21.08.09	KR	GM	DRG. No B8E1-33