

STANDARD TEST METHOD
BULK DENSITY/VOLUME - TAPPED

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SCOPE:

This method is for determining the tapped bulk density and/or the bulk volume of granular or fibrous materials.

APPARATUS:

1. Graduated cylinders - 100 ml, 250 ml capacity.
2. Balance - accuracy ± 0.1 g.

PROCEDURE:

1. Weigh out, to the nearest 0.1 gram, 50 grams of the sample (or a weight as directed on the B8D document).
2. Transfer to a suitable graduated cylinder.
3. Gently tap the base of the cylinder on a slightly resilient surface, such as a rubber pad or book, until the height of the sample in the cylinder is at a minimum. ie the sample height does not reduce with further tapping.

Note: Take care when testing very light materials, that some of the sample is not bounced out of the top of the cylinder during tapping.

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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	5.	Converted from WordPerfect. Converted to Electronic Distribution	11.10.00			
6.	Changed name of test to 'Bulk Density/Volume – Tapped. Updated 'Scope, procedure and calculation to include bulk volume measurement.	21.08.09	KR	GM	DRG. No B8E1-3	