

# ELECTROLAB

## Bulk Density Tester



Compliance



Spatula Removes  
Excess Powder

Patent Pending

### EV-02

#### Features

- Complies with USP and ASTM specifications
- Measures the bulk density of fine powders and similar products
- Easy calculation of bulk density in terms of grams per ml
- Useful in calculating powder flowability index

The bulk density of a powder is the ratio of the mass of an untapped powder sample and its volume including the contribution of the interparticulate void volume. Hence, the bulk density depends on both the density of powder particles and the spatial arrangement of particles in the powder bed.

The bulking properties of a powder are dependent upon the preparation, treatment, and storage of the sample, i.e., how it was handled. The particles can be packed to have a range of bulk densities; however, the slightest disturbance of the powder bed may result in a changed bulk density. Thus, the bulk density of a powder is often very difficult to measure with good reproducibility and, in reporting the results, it is essential to specify how the determination was made.

The bulk density of a powder is determined by measuring the mass of a known volume of powder that has been passed through a volumeter into a cup.

## Specification

<b>Model</b>	<b>EV-02</b>
Top Funnel with Mesh / Material	16-Mesh 0.56 mm Wire Dia 1.03 mm opening
Baffle / Material	4 Nos. / Glass
Baffle Box / Material	45 mm x 45 mm / Stainless Steel
Bottom Funnel	Stainless Steel
<b>Density Cups</b>	
Cylindrical Volume	25.00 ±0.03 cm <sup>3</sup>
Inner Diameter	Ø28.30 ±0.20 mm
Cube Volume	16.39 ±0.05 cm <sup>3</sup> (1.000 ±0.003 in <sup>3</sup> )
Cube Size	25.4 ±0.076 mm
Instrument Stand	Level & Vibration free
Distance between bottom funnel lower opening & top of the density cup	19mm (3/4 in.)

## Our Products

- Complete range of Dissolution Testers • Disintegration Testers • Friability Testers • Tablet Hardness Testers
- Electromagnetic Sieve Shakers • Tap Density Tester • Bulk Density Tester • Powder Flow Tester • Leak Tester • Peristaltic Pumps



The information contained in this document is believed to be correct but ELECTROLAB accepts no liability for any errors and reserves the right to alter specifications without notice  
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