

Apparatus for Determination of bulk density according to European Pharmacopoeia 7.0 (2.9.34.) Method II, USP 616 Method II, DIN ISO 3923 and ASTM 3923 - Volumeter/Scottvolumeter

This apparatus is used to check the structural uniformity of diverse powdery sample materials inclusive metal powders by measuring the bulk density. Therefor the sample material is filled into a funnel containing a sieve with mesh size 1,00 mm (mesh 18).

Below the funnel a baffle box with 4 glass baffles is mounted.

The baffle box ends in a funnel that collects the sample material and let it run into a 25 ml measuring beaker.

The bulk density is obtainable by difference weighing.

Normative Reference:

- USP <616> bulk density and tapped density of powders, method II
- European Pharmacopoeia 7.0 2.9.34. bulk density and tapped density of powders
- Determination of apparent density Scott volumeter method DIN ISO 3923/2
- ASTM 3299 standard test method for apparent density of metal powders and compounds.



Apparatus for determination of apparant density:

(Art: L50566030)

Complete apparatus made of stainless steel including stable and non-slip stand.
The modular build up of the complete apparatus especially of the baffle box allows an easy operation and cleaning.

Consisting of:

- bulk funnel with sieve mash size 1 mm (mesh 18), stainless steel
- baffle box with glass baffles
- measuring beaker 25 ml +/- 0,05, stainless steel
- collection container, 'Clean Save' laboratory glass
- tripod with mark, stainless steel
- wiper blade
- open-jaw wrench
- manual
- sample test protocol

Accessoires:

- sieve mesh size 2,00 mm (mesh 10) (Art. L50566030S)
- stainless steel tray (Art. 534680W)
- calibration certificate for measuring beaker (Art. 5346802Z)
- large tub, stainless steel (Art. L505660A)

stainless steel tray:

For collection of overflowing sample material. The measuring beaker is placed on the mark of the tray to ensure a standardized setup.

calibration certificate for measuring beaker:

Certification about DIN conformity with 3 comparing measurements.

large tub:

The apparatus is placed in the tub. Overflowing sample material can be collected by the tub. The laboratory desk stays clean.

Needed laboratory devices/option:

- Precision balance +/- 0,01 g for determination of bulk density (Art. 5346803)
Maximum weight: 2000 g , accuracy: 0.1 g