

Equipment used

- Scale with accuracy of +/- 0.1g
- One litre container* (height: 98mm, internal diameter: 114mm)
- Ruler**

Measurement process



1. Tare with ARPRO container on scale.



2. Introduce the material into the container at a 45° angle, transferring it carefully either from a receptacle or simply by hand***. Avoid shock or forced compaction.



3. Level the container using a ruler in order to adjust material volume to one litre by removing the surplus. Do not compress.



4. Weigh the full container and record the result with accuracy up to one decimal.

Bulk density calculation

The bulk density of the material is calculated using the following formula: $D = M / V$, where:

D: Bulk density (g/l)

M: Weight of the full container (g)

V: Container volume (l), e.g. one litre as in the case described above.

Value displayed on scale is in g/l, for kg/m^3 multiply by 1,000.

Note

Bulk density is a sensitive measurement. The results are influenced by temperature, humidity and filling method. It is crucial to ensure recurrent measurement conditions.

* and ** provided by JSP
 *** two or three times maximum