

Bulk Density Recipe

RDC - 154

Granular R&D Lab

General Description

The porosity of the different raw materials used for the production of electrodes has a very big impact on the electrode performance. The porosity (or density) level of each raw material separately can be measured with the RDC-153 apparatus; its information is relevant to ensure stable process conditions. Defining the bulk density of the entire dry aggregate recipe is vital for process optimization.

The measurement is conducted with the RDC-154 apparatus, where a given quantity of the representative dry aggregate recipe is filled under controlled conditions into a graduated cylinder. This cylinder is then tapped for a given number of strokes and its volume is measured after the test. The bulk density is calculated and reported in kg/dm^3 , as the ratio of the sample's mass to its volume.



Technical Information

Property	Bulk Density Recipe [kg/dm^3]
Sample	1 kg of dry aggregate recipe
Process Time	~ 15 minutes
Installation	Workbench
Dimensions (LxWxH)	Bulk Volumeter : 33 x 30 x 52 cm Rotating Mixer : 46 x 61 x 77 cm
Weight	Bulk Volumeter : 9 kg Rotating Mixer : 60 kg
Electrical Property	Bulk Volumeter : 230 V 1/N/PE, 50 Hz 0.05 kW, 0.3 A Rotating Mixer : 230 V 1/N/PE, 50 Hz 0.55 kW, 2.4 A
Database Connection	No

Additional Recommended Equipment

Weighing scale with an accuracy of 0.1 g