

RDC-154

Name BULK DENSITY RECIPE

Material type
**GRANULAR
PITCH
ELECTRODES
LINING**

Utilization
**R&D
IN-PLANT
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

