

RDC-135 Archimedes Balances

The procedure determines the apparent density and the open porosity of cathode core samples.

The apparent density of a material is defined as the ratio of its dry mass to its volume. The volume is determined by the measurement of the Archimede's force, which is the mass of displaced liquid that is applied to the sample that is saturated with water after it has been boiled.

The open porosity is measured by calculating the ratio of the mass (volume) of water, which has penetrated into the sample after boiling, to the mass (volume) of the displaced water measured with the hydrostatic balance.



*Photos and illustrations are not contractual

Standards	Compatible	ISO 12985-2
Specifications	Measurement	Archimedes Density [kg/dm ³] Open Porosity [%]
	Sample	Core Ø50x50mm
	Sample / test	1
	Process time	~ 2 hours
Configuration	Set up	Workbench
	Dimensions	35 x 26 x 37 cm (LxWxH)
	Weight	7 kg
Facilities	Electrical connection	230V 1/N/PE, 50/60Hz
	Power	70 W