

RDC-183

Name **FISCHER RAMMER**

Material type
**GRANULAR
PITCH
ELECTRODES
LINING**

Utilization
**R&D
IN-PLANT
LAB**

General description
The bottom of aluminium electrolysis cells is lined with cathode blocks that are sealed with a ramming paste to avoid any leakage. When lining a cell, the green paste is directly rammed between the cathode blocks and baked in situ during the start-up of the pot. The quality of the ramming paste is of primary importance to ensure long operations without disturbance. To measure the properties of the ramming paste (such as the green apparent density or the paste shrinkage), a cylinder must first be prepared.

The paste cylinder is prepared with the RDC-183 apparatus. It is a manual ramming device and includes a sample preparation mold and a mounting table. A given quantity of paste is placed in the mold and manually rammed for a given number of strokes. At the end of the test, the paste cylinder is taken out from the mold and ready for further testing.

Alternatively, the same sample preparation can automatically be performed with the RDC-194 equipment, which also allows measuring the optimum ramming temperature window of the paste.

Technical information	Function:	Sample Preparation for RDC-195
	Sample:	Ramming paste
	Process Time:	~ 5 minutes
	Installation:	Floor standing
	Dimensions (LxWxH):	62 x 62 x 165 cm
	Weight:	289 kg
	Database Connection:	No

Additional Recommended Equipment:

Paste Shrinkage (RDC-195)
Weighing scale with an accuracy of 0.1 g
Oven or refrigerator

