Baking Loss of Ramming Paste

RDC-212

R&D Carbon

Lining | Lab

General Description

The baking loss of carbonaceous ramming paste depends on the binder content and its coking value. A low baking loss is desirable to ensure a high coke residue, which contributes to high mechanical strength of the baked paste, provided that the rammability is appropriate.

The baking loss can be determined with the Baking Loss of Ramming Paste apparatus (RDC-212) by compacting green ramming paste into isometric test specimens (Ramming Behaviour apparatus, RDC-194) and baking them in a furnace at a specified heating rate up to 1000 °C, followed by a holding time of 2 h. The mass loss is calculated from the difference between the initial and final test specimen weights and expressed as a percentage of the initial weight.

The baked test specimens can subsequently be used to determine other properties, such as apparent density, compressive strength and porosity.





Technical Information

Standard Method	ISO 20202
Property	Baking Loss [%]
Test Specimen	Rammed core Ø 50 x 50 mm
Process Time	~ 40 hours
Installation	Non-flammable workbench under ventilation hood
Dimensions (LxWxH)	42 x 80 x 90 cm
Weight	50 kg
Electrical Property	230 V 1/N/PE, 50 Hz 3.5 kW, 14.6 A
Database Connection	No

Additional Recommended Equipment

Weighing scale with an accuracy of 0.1 g
Ramming Behaviour (RDC-194)