GRANULAR PITCH ELECTRODES LINING

R&D **IN-PLANT**

Technical information

The specific electrical resistance of the electrode, strongly influenced by the coke, is an important property to minimize, as it directly affects the voltage drop and, thus, the metal production cost. Measuring the electrical resistance of the coke also provides an indication of the heat treatment that the material has undergone during calcination. Its information is, therefore, valuable for the process control of coke calciners.

The measurement is conducted with the RDC-147 apparatus, where a given weight of sample from a specific fraction is pressed in a chamber where a constant direct current is applied. The voltage drop, combined with the height of the sample, is measured to calculate its specific electrical resistance in $\mu\Omega m$. By measuring the height of the sample, the pressed density in kg/dm³ can be calculated at the same time.

Standard Method:	ISO 1014	.3
Property: Specific Electrical R Pressed Density	esistance [μΩπ [kg/dm	
Sample:	15 g of granular carbon (1.4–1 mm	٦)
Process Time:	~ 2 minute	!S
Installation:	Workbenc	h
Dimensions (LxWxH):	60 x 67 x 73 cr	n
Weight:	100 k	g
Electrical Property:	230V 1/N/PE, 50 H 0.5 kW, 2.2	
Certified Reference Sta	ndard: RDC-114	.7
Database Connection:	Ye	S

Additional Recommended Equipment:

Oil content (RDC-176 or RDC-208) Drying oven (min. temperature 110 °C) Weighing scale with an accuracy of 0.01 g Crusher (<1.5 mm) Sieving machine (1.4 mm and 1 mm sieves)



RDC 1147

Weight per unit: Number of tests:

Fechnical information



180 g

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