RDC-177 B DUST FORMING FACTOR

GRANULAR PITCH ELECTRODES LINING



Handling of calcined coke potentially creates dust emission during loading and transportation, especially when its grain size distribution is fine. To prevent this, a dedusting agent is usually added after calcination. To optimize the quantity of oil necessary for limiting dust emissions, the dusting propensity of a specific calcined coke should be determined.

The measurement is conducted with the RDC-177 apparatus, where a given mass of sample is placed. A valve allows the sample to fall into a chamber, while an airflow carries the finest particles to a filter on top of the equipment. The dust forming factor is calculated and reported as the percentage of dust in the filter compared to the initial sample weight.

Property: Dust Forming Factor		[%]
Sample: Process Time Installation:	100 g of granular carbon (natural < 4 mm)	
Process Time	:	~ 5 minutes
Installation:		Fix on a wall
Dimensions (LxWxH):		26 x 36 x 81 cm
Weight:		30 kg
Fluid Propert	y:	Air, 300 l/h, 3–7 bar
Database Cor	nnection:	No

Additional Recommended Equipment:

Weighing scale with an accuracy of 0.0001 g Oven (min. temperature 110°C) Desiccator Sieving machine (4 mm sieve)

