

RDC-168 Hardgrove Grindability & Pulverizing Factor

Pulverizing Factor

While the large coke grains have to be strong enough to withstand the forming pressure, the smaller grains have to be relatively easy to grind for the purposes of fines production. In a paper published in the Light Metals 1992, it was shown that the Hardgrove mill was found to be quite appropriate and was used to develop a method where the quantity of calcined coke (1.0 – 0.5 mm original size) passing a 75 µm (mounted on an air jet machine) after 200 milling revolutions is measured. The pulverizing factor is calculated by dividing the number of grains passing 75 µm during the milling time of 5 minutes.

The Pulverizing Factor analysis is used for determining the Pulverizing Factor of calcined coke according to ASTM D 409.

Hardgrove Grindability

The quantity of calcined coke (1.18 – 0.6 mm original size) passing a 75 µm (mounted on an air jet machine) after 60 milling revolutions is measured. The Hardgrove Grindability Index is calculated according to ISO 5074 with the number of grains passing 75 µm during the milling time of 5 minutes.

The RDC-168 Hardgrove Grindability & Pulverizing Factor consists of:

- 1 Hardgrove Mill
- 1 Alpine air jet sieve machine with a 75 µm sieve



*Photos and illustrations are not contractual.

		Hardgrove	Air Jet Sieve
Specifications	Measurement	Hardgrove Grindability Index [-]	Pulverizing Factor [-]
	Sample	Coke 1-0.5, 1.18-0.6 mm	
	Sample / test	1	
	Process time	~ 15 minutes	
Configuration	Set up	Workbench	
	Dimensions	60 x 40 x 60 cm (LxWxH)	100 x 50 x 60 cm (LxWxH)
	Weight	83 kg	28 kg
Facilities	Electrical connection	100-250 VAC 1/N/PE, 50 / 60 Hz	
	Power	0.25 kW	