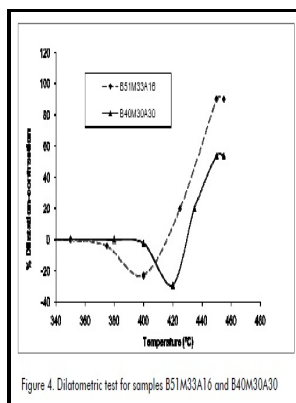


Strength of metallurgical coke in relation to fissure formation

- - [PDF] Effects of Stamped Charging on the Strength of Coke from the Weakly Caking Australian Agro



Description: -

-Strength of metallurgical coke in relation to fissure formation

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Notes: Thesis (Ph.D.) - Loughborough University, 1999.

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Tags: #Metallurgical #Coal

[PDF] Quantitative Evaluation of Relationship between Coke Strength and Pore Structure

High-rank coal within the reflectance range of 1. The dilatometer values are mainly useful since they indirectly measure the thickness and viscosity of the plastic layer, and how they are impacted by the amount and rate of gas evolution during softening and re-solidification.

FFPMC

It has been seen that the specific surface area increases with carbonization temperature and reaches a maximum at around 600 deg C, and coke produced at temperatures above 800 deg C possess much lower surface area, due to sealing off of the micro-pore system.

Rational coke preparation for blast furnaces, Coke and Chemistry

Thus, the pore volume distribution in the range between 2 nm and 1000 nm is of great importance for the coke reactivity. The non-porous isotropic microtexture, roughly related to the inertinite macerals other than semi fusinite, does contribute to the loss in strength of the post reactivity coke, but seems to be rank dependent with the lower rank coals suffering a greater reduction in coke strength. The micro-pore size range has been further subdivided into the very narrow ultra-micro-pores less than 0.

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The coking ability of coal is somewhat correlated with its physical properties such as its rank, but laboratory and sometimes pilot oven testing is required to completely evaluate the coking ability of the coal. Hence, superior coke quality is critical for a stable and efficient BF operation.

Petrographic aspects of the hot strength of coke

It has proved difficult to quantify what controls the remainder of the variation observed in the coke reactivity test.

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