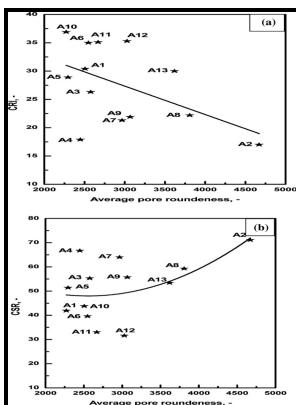


# Interfaces between the textural components in metallurgical cokes

## - - Properties and Structure of Metallurgical Coke



Description: -

-Interfaces between the textural components in metallurgical cokes

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### The characterization of interfaces between textural components in metallurgical cokes

However, there is no other satisfactory material available, which can replace, fully or partially, metallurgical coke as a permeable support of blast furnace charge materials burden. Following this context, the new raw materials addition added to the carbonaceous coal blends for the metallurgical coke production is a viable route, and the waste tire a promising material.

### The quality of interfaces in metallurgical cokes containing petroleum coke

In the 1960s and 1970s, the construction of tall coke ovens height 6 m and above became prevalent. Microscopically coke consists of a solid matrix, organic and inorganic inclusions in the matrix, pores and micro-fissures. The measuring principle is based on the non wetting characteristics of mercury with lot of solid materials.

### Textural changes in metallurgical coke prepared with polyethylene, International Journal of Minerals, Metallurgy, and Materials

As a result, volume of coal expansion is smaller than that of inter-particle spaces. For this reason, the diffusion of gas trapped within the foams is facilitated and foams fail to maintain growth, thus the dilatation of particles terminates. Coke quality is influenced by many factors such as the rank, the maceral composition leading to isotropic or anisotropic coke structures , the ash composition and the fluidity of the starting coals, the carbonization conditions including peak temperature, heating rate, particle size, pressure and bulk density as well as heat treatment conditions.

### The quality of interfaces in metallurgical cokes containing petroleum coke

Refined water was taken in the burette was 2 cm tallness. Mean pore wall thickness also shows high in A2, A4, A7, A8 and A9 samples rather than the A5, A6, A10, A11 and A12 samples.

### The quality of interfaces in metallurgical cokes containing petroleum coke

Five drops in better place of the textured surface were taken and the normal time was recorded as the receptiveness.

## **A Method for the Rapid Characterization of Petroleum Coke Microstructure Using Polarized Light Microscopy**

At first the real and apparent density was measured by these methods. It shows that the mean value obtained was not in good within 8.

### **Reactive**

The characteristics temperatures and stages during coal carbonization is shown in Fig 1, and the development of the plastic layer and its movement during coal carbonization process is shown in Fig 2. A methodology for measurement of coke structure based on image analysis was developed.

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