Investigations of chlorine and alkali behaviour in the blast furnace and optimisation of blast furnace slag with respect to alkali retention capacity

Fact Sheet

Project Information

Grant agreement ID: 7210-PR-068

Funded under
ECSC-STEEL C

Start date  
1 July 1998

End date  
30 June 2001

Overall budget
€ 2 347 500

EU contribution
€ 1 408 500

Coordinated by
AKTIEN-GESELLSCHAFT DER DILLINGER HÜTTELNERKE
Germany

Objective

The blast furnace operation is known, but behaviour of chlorine in interaction with alkali within the blast furnace is quite unclear. With increasing injection rate of coal and especially plastic, the chlorine input is increasing. The aims of the project are: to investigate influences of alkali and chlorine compounds on sinter and coke quality; the study of the formation of primary slag; the investigation of the influence of softening and melting behaviour of burden in a pilot blast furnace; the experimental study, in laboratory, of the influence of slag conditions on the alkali and sulphur removal and the verification of experimental results of laboratory and their application
to the operation of blast furnaces.

Programme(s)

Topic(s)

Funding Scheme

CSC - Cost-sharing contracts

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