



Measurement of emissions from coke oven doors



Coke sample

References

Selected References

Optimization of coal blends and monitoring of coke quality

- ArcelorMittal Eisenhüttenstadt
- Corus Strip Products
- Hüttenwerke Krupp Mannesmann
- Hyundai Steel
- ISPAT Industries
- Kansai Coke & Chemicals
- Rautaruukki
- Svenskt Stål
- ThyssenKrupp
- Voestalpine

Investigation of single coals

- Anglo Coal Australia
- BHP Billiton Mitsubishi
- Eurolinex
- Peabody Energy
- Vale

Measurements in operating plants and environmental protection

- Hüttenwerke Krupp Mannesmann
- RAG Kokerei Prosper
- ThyssenKrupp
- Voestalpine

Our services

Coke Making Technology Services

We accomplish tests and simulations for the optimization of coals blends used in coking plants and monitor the quality of coal and coke. We determine the coking properties of coals as well as the resulting coke quality. With these activities we support the coke plants regarding the monitoring of coal and coke quality.

Our special measuring equipment enables us to detect damages at an early stage; we use devices for measuring important coke plant parameters, such as heat flow volume, high temperatures and low pressure differences.

Our experts, engineers and technicians will provide you with qualified measuring and consulting services. Our expertise will also help you in discussions with the authorities to implement the increasingly strict requirements for preventing air pollution.

Coking Making Technology – Service for the future



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Coke oven battery



Training



Coke oven charge after half of coking time

Environmental Measurement

Permanent partnership

Measurement of emissions from diverse sources at the coke plant Prosper (RAG)

DMT performs the emission measurements for the coke plant Prosper required by the German authorities. The regular measurements ensure the operation of the coke plant with environmental compliance.

Contract includes:

- Measurements of specific coke making emissions at the wet quenching towers, coke oven doors, charging holes
- Measurements of diffuse emissions from coal storage, handling and transport
- Measurements in hot, tar and dust containing gases

Tests for coal blend optimization

International projects

Optimization of the coal blend for a new coke plant in South Korea and training of the personnel from the coke quality department.

The optimization and quality monitoring of the coal blend are important constituent parts for the safety and economical operation of a coke plant.

Contract included:

- Coal analyses
- Retort tests
- Semi-technical carbonization tests
- Coke investigations
- Computation / Simulation
- Training

New coking coal deposit

Current projects

Analysis and carbonization tests with a new hard coking coal from Mozambique

Carbonization tests with this new coal as single charge and as a part in common blends allow the evaluation of the potential of the coal as coking coal. These investigations are important to determine the market value of the coal.

Contract includes:

- Specification of the coal
- Laboratory carbonization tests
- Carbonization tests in pilot scale coke oven
- Investigation of the coke quality
- Appraisal of the coke quality



Measurement of emissions



Semi-technical carbonization oven



CRI/CSR - Determination