

INDUSTRIES



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chemicals



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MEASURING MOISTURE IN SINTER BLEND

Application Note

SN: 08-066

Customer

The customer is a major producer of iron. The iron is produced at two blast furnaces and then converted to raw steel at a three-furnace converter shop and continuous casting complex.

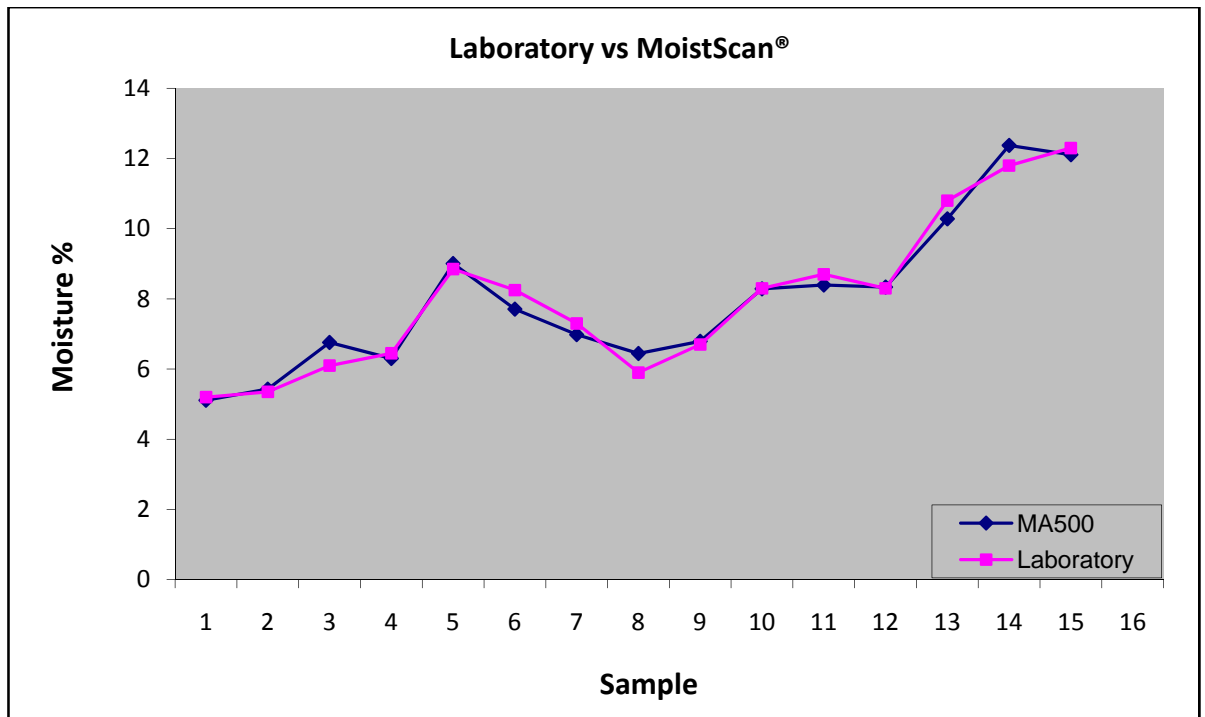
Installation

A MoistScan® MA-500HDI series II online microwave moisture analyser is installed on the Sinter line, after the mixer, on a moving conveyor taking the mixer discharge to the sinter oven feed hopper.



Benefit

Data from the analyser is output in real time as an analogue signal representing percentage moisture. The MA-500HDI is installed in order to provide feedback control of water addition so that the feed to the Sinter oven has the correct moisture content.



Application Summary

Material	Sinter oven feed mixture
Instrument	MA-500HDI Series II
Location	Mixer outlet
Bed Depth	less than 60 mm

Moisture	5.2 – 12.3%
Belt Speed	Approx 1m/s
Temperature	Ambient
Precision	0.3% (1SD)
Use	Process automation and feed-back control