

REAL TIME IN STRUMENTS

Online moisture analysers installed to improve sinter production efficiency

A major global steel manufacture with facilities in Serbia recently engaged online moisture analysis specialist

RTI in regard to improving sinter production efficiency by better controlling moisture content.

An integral part of the refurbishment of the sinter production line in the company's plant, was the installation

of a MoistScan® MA-500HDi to provide feed-back control of water addition so that the sinter feed moisture

can be tightly controlled.

The MoistScan® is installed on a moving conveyor taking the mixer discharge to the sinter over the feed

hopper. The conveyor moves such that the material in the hopper below is evenly distributed for feeding into

the sinter oven.

The amount of moisture in the sinter has a great impact on the balling process. As well as moisture content,

the method and point of water addition are important." If the sinter mix has excessive moisture, it produces

a weak, spongy ball which may be destroyed upon handling or which upon further moisture absorption in

sintering, depreciates completely.

If the sinter has insufficient moisture, it prevents optimum degree of balling to be attained and the small balls

are weak because air inclusion reduces the capillary attraction between particles.

Due to harsh environmental conditions at the Serbian plant the Moistscan® was ruggedised to suit the

extreme cold temperatures by installing internal thermostatically controlled heaters within the cabinet of

the analyser.

The typical moisture variations for the sinter were 5% - 12% total moisture. The Moistscan® performed

exceptionally well on the sinter product responding accurately to the variations in moisture. MoistScan®

online moisture analysers transmit a microwave signal through 100% of the material. By measuring changes

in the strength and velocity of the signal the percentage moisture is accurately determined.

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