

Application Note

SN: 07-035

MEASURING MOISTURE IN NICKEL ORE

Customer

Our customer is a global diversified mining group. Its businesses maintain a meaningful position in seven major international commodity markets: copper, coking coal, thermal coal, ferrochrome, nickel, vanadium and zinc, with a growing platinum group metals business, additional exposures to gold, cobalt, lead and silver, recycling facilities and a suite of global technology products, many of which are industry leaders.

Installation

A MoistScan® MA-500HD online microwave moisture analyser is installed on the conveyor that feeds material into the #1 dryer from the surge bin.

Benefit

The analyser is used to incorporate the feed moisture into the control algorithm to improve the efficiency of the system which will save significant amounts of fuel.



INDUSTRIES



mining



chemicals



building



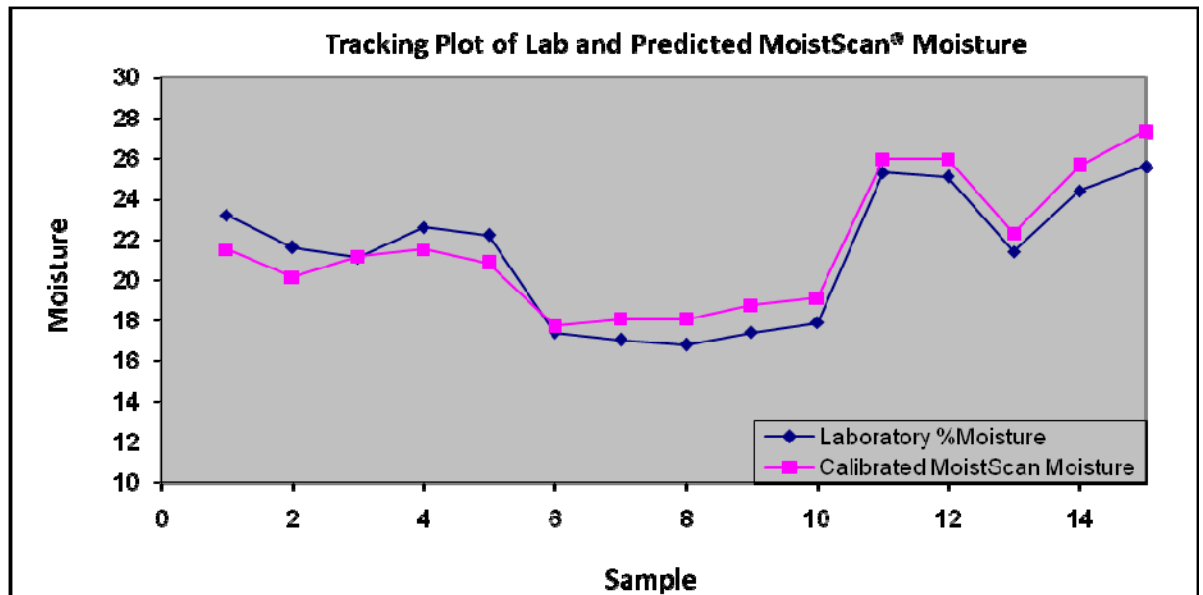
food



agriculture



bio fuels



Application Summary

Material	Nickel Ore
Instrument	MA-500HD Series II
Location	Conveyor Belt
Bed Depth	100mm – 300mm
Particle Size	≤2.5 inch

Moisture	25% to 30%
Belt Speed	250 to 400 tph
Temperature	20°C to 30°C
Precision	±1.0%
Use	Process automation and feed-forward Control