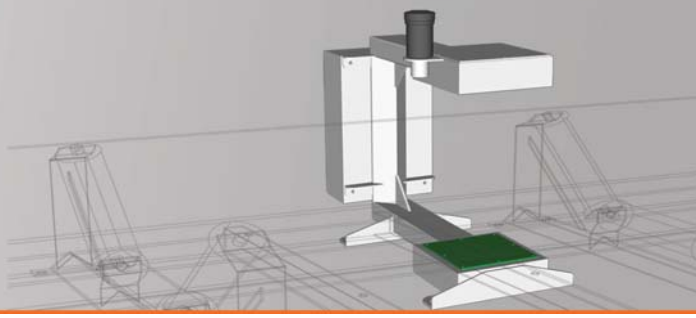
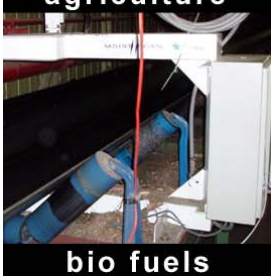
MOISTSCAN®
the global leader in online moisture analysis...



INDUSTRIES



MEASURING MOISTURE IN NICKEL ORE

Application Note

Customer

The customer, a major producer of ferronickel, operates four nickel mines and one smelter in New Caledonia.

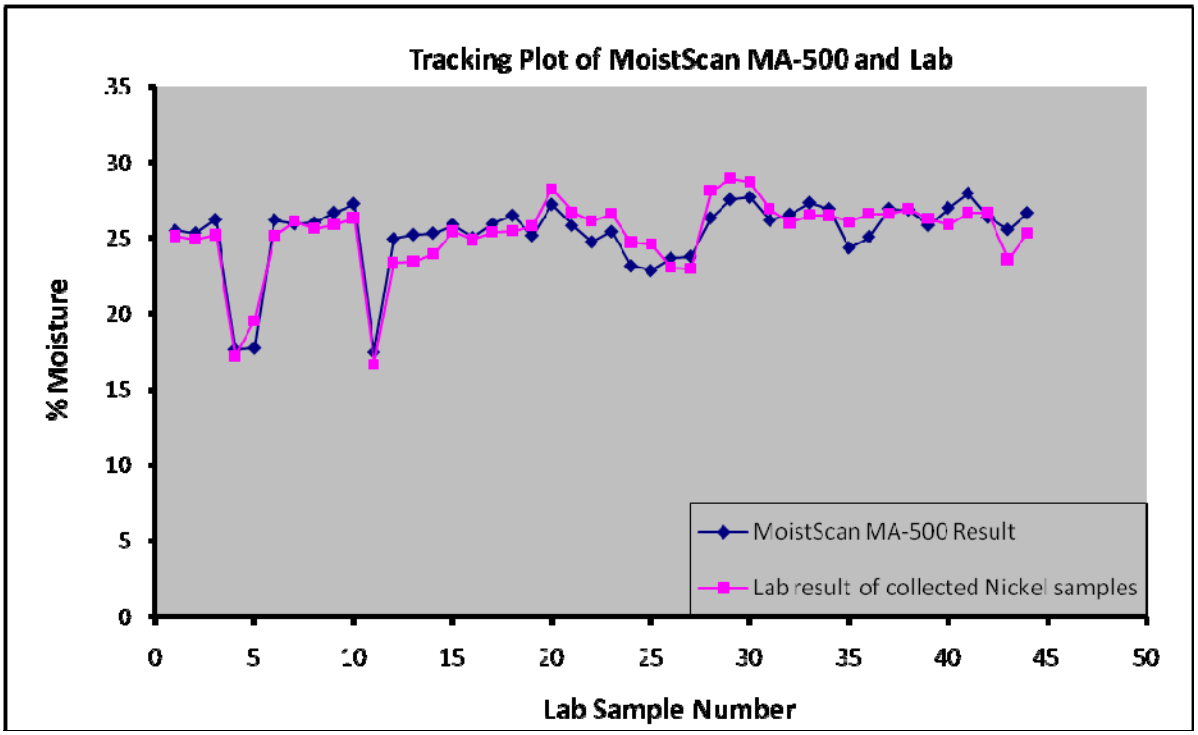
MA-500 installed on conveyor

Installation

MoistScan® MA-500 online microwave moisture anlaysers are integrated with a bank of rotary drying kilns. Installed on the feed conveyors to each kiln the MA-500's determine the moisture variation in the raw ore.

Benefit

Moisture data from the anlaysers is output in real time as an analogue signal representing percentage moisture. This signal is integrated into a PID process loop to control the residence time of the ore in the dryer. The MA-500's are instrumental in maximising energy efficiency of the plant.



Application Summary

Material	Nickel Ore
Instrument	MA-500
Location	On Conveyor
Bed Depth	50 – 150mm

Moisture	15 - 25%
Belt Speed	2.5m/s
Temperature	60ºC
Precision	0.8% (1SD)
Use	Control residence time of ore in the dryer