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What's New in Thermo Metals

Optimizing your process, in the lab and on the line

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Metals Newsletter - November 2006

In this issue, discover how Thermo can help you improve productivity and increase quality in your process line. We offer a wide range of technology and applications, from online gas analysis to thickness and coating weight measurement to ensure product consistency. Look to Thermo to offer you exceptional end-to-end solutions and dedicated customer support.



What is Glow Discharge Mass Spectrometry?

Glow discharge mass spectrometry (GD-MS) is the high performance tool for the solid analysis of high purity metals down to single digit ppb levels. The glow discharge mass spectrometry is the method of choice for the direct quantitative analysis of trace elements, e.g. impurities in conductive solids. [Learn how it is produced.](#)

Significant Savings of Zinc on Galvanizing Lines

The savings due to reduced zinc consumption, faster product changes and reduced scrap production amount to more than 1 million US\$ annually for typical continuous galvanizing lines. These savings will be even greater as the zinc price continues to leap upwards (zinc price has multiplied more than six times from US\$ 500/ton in 2003 to US\$ 3,300/ton in April 2006). [Thermo has your solution.](#)

Advantages of Using Mass Spectrometry on Blast Furnaces

Trevor Bell, Senior Development Metallurgist - Iron with Corus Construction and Industrial's UK operation shared some of his thoughts with Mike Dyson, Regional Manager of Thermo's Winsford, UK office. "The reason we value the top gas analysis is, of course, that it gives us a window on the process. We can see how effectively we use the reducing gases created in the process, but perhaps most importantly, it provides us the tool by which we can model, monitor and control the process." [Full Story](#)



Introducing Thermo's NITON XLt 898He

Thermo's NITON XLt 898He is the first truly nondestructive portable analysis tool for light element content in alloy material. The XLt 898He provides fast, laboratory-quality chemical analysis of light element content in aluminum and titanium alloys, as well as nickels, super alloys, stainless steels and more.

[Read more...](#)

Thermo's SC 4000 - Portability, Reliability for Oil Film Measurement

As different oil films are being considered as chrome-free passivation alternatives, Thermo has the ideal hand held measurement solution to verify the correct amount of oil is being used. The [SC 4000](#) hand held oil film thickness gauge can measure oil films down to tens of milligrams per square meter. This level of measurement resolution gives you the confidence your process is running within tolerance, protecting the strip, but not wasting through over-coating.



1000th Shipment of Thermo's ARL 4460 Optical Emission Spectrometer

This vacuum spectrometer is recognized as the best performing instrument for metal analysis available on the market. The ARL 4460 features two unique techniques, Thermo's patented Current Controlled Source (CCS) and Time Resolved Spectroscopy (TRS), establishing this innovative instrument as the benchmark for accurate and reliable metal analysis in primary plants, foundries, forges, mini-mills and casting mills.

[Read more...](#)

Metal Expo Russia, November 14-17, 2006

Our Thermo's Metals team will be exhibiting at [Metal Expo Russia](#) held at the All-Russian Exhibition Center in Moscow, Pavilion N, Stand X20 35. This event will have over 750 exhibitors representing leading ferrous, non-ferrous and machine-building enterprises, leading European manufacturers of equipment for metal working, metal/steel traders and steel service centers. Expected attendance will be approximately 31,000 visitors.

For More Information:

For more information on the metals market, please contact us at metals@thermo.com or 800-488-4399.



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