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Thermo Niton XLi 818 Portable Alloy Analyzer

The XLi 800 Series Alloy Analyzers are the world standard for nondestructive analysis and grade identification of metal alloy materials in industries ranging from primary metal production to product fabrication to scrap recycling.

The Thermo Scientific NITON Analyzer offers numerous appealing features including:

- ÉVery easy to use - even by non-technical personnel
- ÉLittle to no sample preparation is necessary
- ÉA truly nondestructive test with instantaneous results

The need for metal alloy material verification is an increasingly important issue across a wide range of industries. Specially engineered alloys are continually being developed to better withstand the specific stresses and requirements of many different specialized applications.

Though necessary and exciting, these new introductions dramatically increase the complexity of material verification and QC testing needs. Material inspection is intensely critical in certain industries such as aircraft and aerospace manufacturing, since human lives may depend on the proper performance of alloy components. A material mix-up in a petrochemical process system can be disastrous. On a spacecraft or commercial satellite it can mean millions of dollars and years of effort wasted. In a scrap recycling facility, misidentified material can result in a returned load and a loss of consumer confidence. Conversely, identifying and upgrading alloy material provides instantaneous return on investment to scrap metal recyclers.

Thermo Scientific NITON XRF (x-ray fluorescence) alloy analyzers are designed to quickly and reliably provide accurate alloy material verification, and have become the worldwide standard for material analysis in industries ranging from primary metal production to scrap metal recycling. NITON analyzers provide immediate nondestructive chemical analysis of alloy materials from titanium to nickel superalloys, from castings to fasteners, dip switches to scrap cuttings and turnings, incoming raw materials to final product QC. They supply fast, nondestructive analysis of high-temp, nickel and stainless steel, as well as screening for the presence of prohibited materials such as Sn, Se, Cd,

and Zn in spacecraft applications, and Pb, Cr, Cd, Br, and Hg for RoHS compliance. **Optimized to Fit a Variety of Analysis Needs** NITON Alloy Analyzers are available in a variety of form factors and excitation options to provide the optimal analyzer configuration for your analytical needs. Sealed against moisture and dust, Thermo Scientific NITON Analyzers are designed to be just as effective in the field or on the shop floor as they are in the laboratory.

SPECIFICATIONS of The XLi-800 Series

Xray Detector Analysis Range	High performance SiPIN detector, Peltier cooled 25 standard elements from Ti to Bi Nonstandard in-range elements from Mg to Pu available
Standard Accessories	Shielded belt holster, locking shielded waterproof carrying case 110/220 VAC trickle charge/adaptor Spare Li-ion battery pack with holster, RS-232 PC data transfer cable Integrated barcode reader and NDT PC software utilities including live image display
Data Storage Weight / Dimensions	Internal --6000 readings + spectra .08 kg(1.7 lbs) 292 x 89 x 76 mm (11.5 x 3.5 x 3.0 in)
Excitation Source	One or more of the following sealed radioisotope sources: 241Am (Infiniton), 55Fe, 109Cd kV/10µA and current variable normally between 212 µA , 1W (tube specs: 40 kV to 38 kV/50µA, 2W maximum). Using silver anode target.
System Electronics Batteries	Hitachi SH-4 CPU, ASICS high-speed DSP, 4096 channel MCA (2) Rechargeable Quick Swap Li-ion battery packs 6-14 hour use
Security Display	Password protected user security Backlit VGA touch screen LCD
Testing Modes	Alloy Grade w/ Chemistry (fundamental Parameters analysis) Standard Signature Store / Match Mode SuperChem Mode Pass / Fail Sorting Mode
Data transfer	RS-232 serial cable or optional Bluetooth wireless connection. NDT PC software utility easily exports data for use in common PC applications, and provides data encryption QA/QC documentation
Optional Accessories	Benchtop and Portable test stands Bluetooth wireless communication Weld collimator, Wireless Printers and Portable GPS He Purge option for light element analysis

The NITON XLt with an x-ray tube excitation source, provides laboratory analytical precision in a portable instrument with generally reduced regulatory requirements. It is

also available with a helium purge option, that allows light element analysis (Mg, Al, Si, P) that was previously impossible in a portable instrument.

The NITON XLi and its pistol-grip cousin, the NITON XLp provide fast, dependable material analysis and grade identification even in the most punishing environments. These rugged tools also feature Thermo Fisher's patented Infinion™ maintenance-free excitation technology, providing the most economical analysis solution available in the industry.

Whether the need is quality control, positive material identification (PMI), failure analysis, RoHS compliance screening, or sorting of scrap material for recycling, Thermo Fisher Scientific provides the ideal solution for your business.



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