



Thermo Scientific Niton XRF Analyzers



Delivering a new level of productivity and profitability to the metals recycling industry



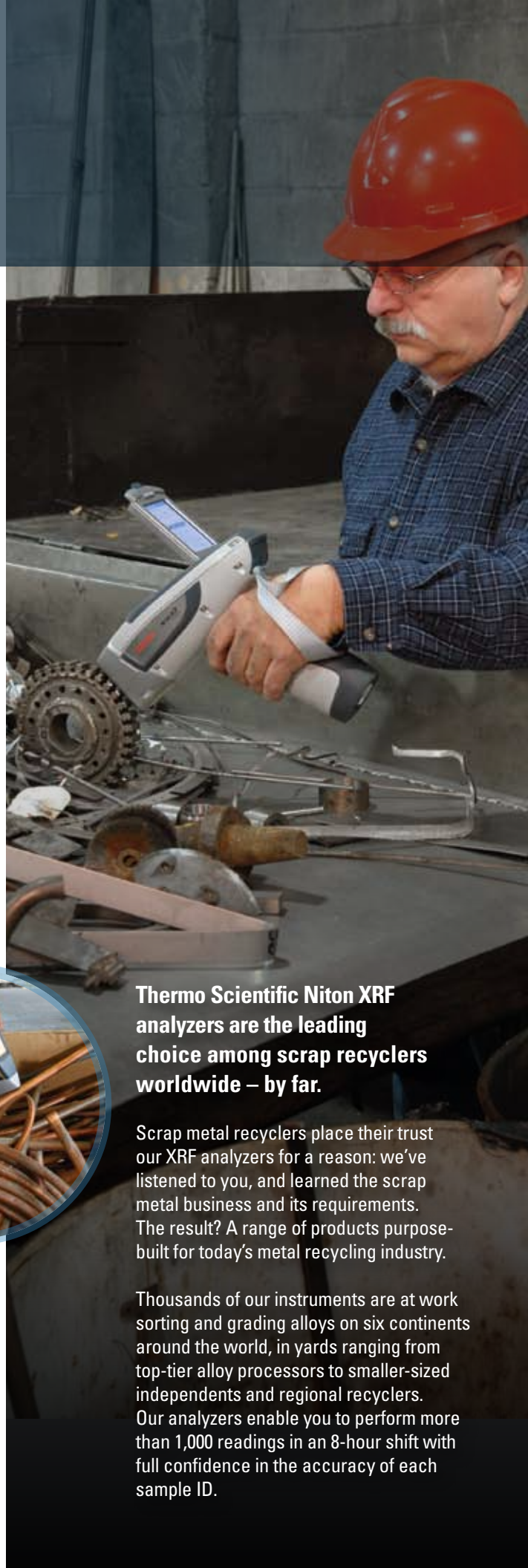
With today's volatile commodity prices, the need for sorting recycled metals quickly and with accuracy is critical.

Each second lost and every wrong sorting call could affect your profitability and place you at a real competitive disadvantage.

Thermo Scientific Niton x-ray fluorescence (XRF) analyzers are the first choice of metal recyclers around the world, delivering rapid, accurate results right in the palm of your hand. With point-and-shoot simplicity, you can view the alloy grade and chemistry on the built-in color touch-screen display.

Testing time is almost instantaneous for routine scrap sorting, and just a few seconds longer to obtain lab-quality chemistry. It's a nondestructive process requiring minimal training and little or no sample preparation, regardless of sample shape or size:

- Accurately measure more than 25 elements
- Screen samples as small as 1 mm wires to massive structures
- Performs flawlessly in almost any environment or weather condition
- Take advantage of a unique integrated library of 400+ alloy grades



Thermo Scientific Niton XRF analyzers are the leading choice among scrap recyclers worldwide – by far.

Scrap metal recyclers place their trust in our XRF analyzers for a reason: we've listened to you, and learned the scrap metal business and its requirements. The result? A range of products purpose-built for today's metal recycling industry.

Thousands of our instruments are at work sorting and grading alloys on six continents around the world, in yards ranging from top-tier alloy processors to smaller-sized independents and regional recyclers. Our analyzers enable you to perform more than 1,000 readings in an 8-hour shift with full confidence in the accuracy of each sample ID.

Thermo Scientific Niton XRF Analyzers

Our handheld Thermo Scientific Niton analyzers are the perfect fit for metal recycling companies

Niton® XL2 Series:

- Angled LCD display with easy-to-read icons
- Rapid sorting with reliable results
- Standard analysis range of up to 25 elements

Niton XL3 Series:

- Variable position display
- Position small samples with optional CCD camera and small spot
- Upgradeable to Niton XL3 GOLDD Series

Niton XL3 GOLDD Series:

- Highest sensitivity and measurement accuracy, especially important for tramp and trace elements
- Light element detection (Mg, Al, Si, P, S); no helium or vacuum purge
- Highest performance for shortest possible testing times



"We bought the Niton XL3t for the speed it can sort and grade material. Man hours are precious to us, and this new instrument effectively gives us more."

**– Mark Westwood,
director, Cronimet GB**

The Niton is an essential piece of equipment for us. It enables us to give our customers the best possible price, since we know exactly what grade of alloy we are dealing with."

**– James Varley,
director, Morecambe Metals,
("Alloy Analyzer Provides
Instant Results for Scrap Metal
Company)," Process and Control
Today, May 8, 2008; Steel Guru**

• Exceptionally fast, easy to use

Just point and shoot. Sort more scrap in less time than previously possible.

• Purpose-built

Ruggedized with sealed construction, analyzers are built with LEXAN® plastic and weigh approximately 3 pounds (1.36 kg); dust- and waterproof for worry-free use virtually anywhere.

• Optimized for scrap metal recycling

Alloy grade library sorts alloys with greater accuracy than previously available

• Flexible communications

Bluetooth™ wireless, USB, and RS-232 serial communications interfaces are included in every analyzer. Advanced Niton Data Transfer (NDT©) PC software lets you set user permissions, print certificates of analysis to document results, or operate the analyzer right from your PC.

metals recycling

Our XRF analyzers are the leading choice among scrap recyclers worldwide – by far.

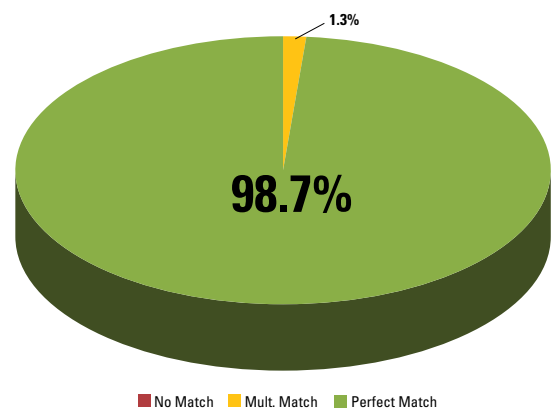


Thermo Scientific Niton analyzers offer unmatched accuracy in grade identification –

providing significant value to your sorting operation. Unfailing accuracy of your IDs means fewer rejections, more satisfied customers, and repeat business.

Thermo Scientific Niton analyzers were engineered from the ground up to provide the industry with faster sorting and more accurate results. Analyze nearly every element of interest in virtually all types of metal alloys, from trace levels to pure metals, and everything in between – just point and shoot. Since our analyzers are known around the world for scrap metal sorting, you know your results will be highly comparable across the industry.

Niton XL2 Alloy Identification Accuracy



The Thermo Scientific Niton XL2 was tested against 76 representative certified reference materials (CRM) to determine its ability to correctly identify the grade of metal alloy. Although each measurement was performed for a total of 30 seconds, correct grade identification is often provided in less than 3 seconds.



Going for the GOLDD: Advanced Thermo Scientific technology gives scrap metal recyclers an edge

Niton XL3 with GOLDD technology features:

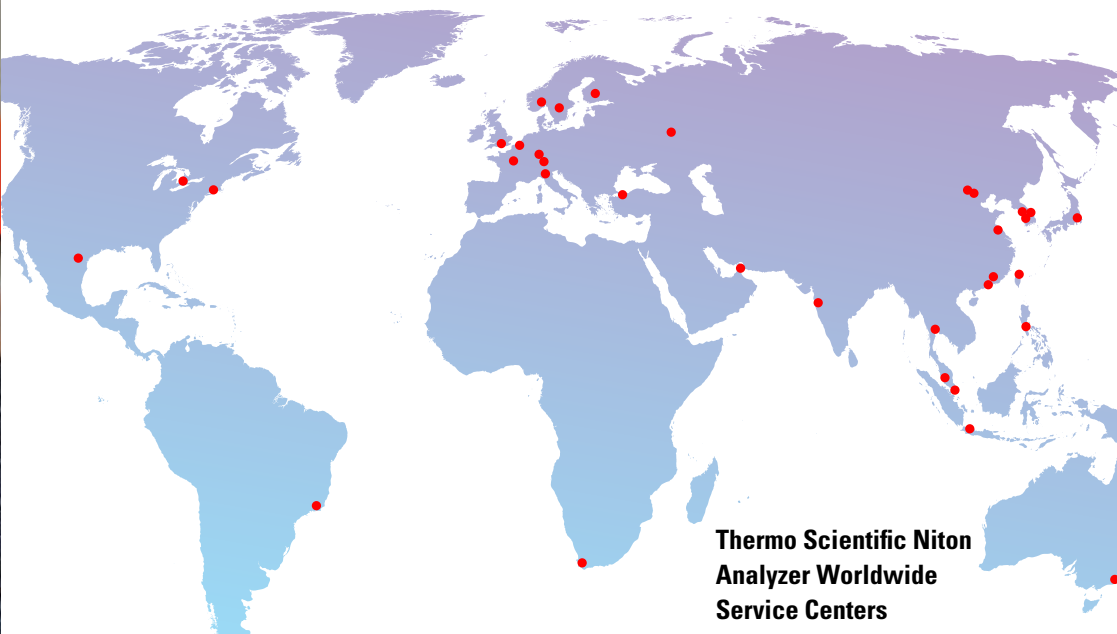
- Fastest alloy grade ID
- Superior detection limits for trace/tramp elements
- Unrivaled light element performance for sorting Al, Ti, bronze, Zn, super alloy, and specialty steels
- Unparalleled accuracy for confident results every time
- True lab-quality performance in a handheld instrument

Families of alloys that can be accurately analyzed with a Niton XL2 or XL3 analyzer include:

- **Stainless steels**
- **Copper (Cu) alloys**
- **Nickel (Ni) alloys**
- **Titanium (Ti) alloys**
- **Cobalt (Co) alloys**
- **Wrought aluminum (Al) alloys**
- **Ni/Co alloys**
- **Low alloy steels**
- **Tool steels**
- **Chromium-molybdenum (Cr-Mo) steels**
- **Zirconium (Zr) alloys**
- **Exotic alloys of most types (alloys of tantalum, hafnium, and tungsten)**



Over 20,000 Thermo Scientific Niton XRF analyzers are in use daily in more than 75 countries on six continents.



**Thermo Scientific Niton
Analyzer Worldwide
Service Centers**

Superior XRF analysis solutions, backed by our worldwide sales and service

We are recognized as the leader in XRF analysis technology, serving companies in more than 75 countries on six continents. We serve our customers through corporate resources and a dedicated network of more than 70 distributors and 30 factory-trained service centers around the world to provide the most effective customer service possible. Our global reach and resources not only ensure worry-free product support, we offer comprehensive services including application consulting and training anywhere you need them.



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