

SPECTRO xSORT_{XHH03}

HANDHELD EDXRF SPECTROMETER



Compliance screening and elemental analysis
on-site in seconds

Helping to meet the legislative challenge with

SPECTRO xSORT

National and international legislation has been introduced around the world aimed at reducing the health and environmental impacts of a variety of harmful substances in consumer goods and other manufactured products. Controls exist not only on the materials used in manufacture but on the procedures used for disposal of products at the end of their useful lives. Different standards apply in different countries to products as diverse as electrical and electronic products, toys and cosmetics. Certain notorious elements of very high concern, especially lead, figure widely in the legislation, so elemental analysis may be the only way of demonstrating compliance.

Enter the new SPECTRO xSORT



THIS HANDHELD ENERGY DISPERSIVE X-RAY FLUORESCENCE (EDXRF) SPECTROMETER has exceptional performance for this class of instrument, and can provide laboratory quality screening results in a matter of seconds. The SPECTRO xSORT has been optimized for fatigue-free on-site measurements.



HIGH SPEED COMPLIANCE TESTING

The SPECTRO xSORT is particularly powerful portable EDXRF analyzer with exceptional capabilities. Compared to conventional handheld instruments, it allows decidedly shorter measurement times.

FLEXIBLE FOR ANY KIND OF SAMPLE

Samples to be analyzed can be anything from polymers and plastics to metal alloys. A few-second spot check offers an immediate read. Hold on the sample longer for even more accurate parts-per-million analyses of arsenic, cadmium, chromium, copper, lead, mercury, or your contaminant of choice.

REPEATABILITY, PRECISION AND THE PASS/FAIL DECISION

Efficiency and simplicity pervade every aspect of the product's fit and function. Operators won't have to mess with methods or bother with flushes or vacuum systems. When configured for RoHS screening, the SPECTRO xSORT can compare results with stored limit values as ABOVE LIMIT, BELOW LIMIT or INCONCLUSIVE.

SPECTRO xSORT

advantages for elemental compliance screening

FEATURES

Radiation safety gasket to prevent back-scatter radiation from scattering samples like those that contain oxygen, carbon, organics, etc.

Low detection limits — down to ppm range for heavy metals and more



Integrated video camera for precise spot testing, with visual memory storage

High resolution, high sensitivity SDD detector

Interface bezel with operator-defined hot keys to maximize speed of common tasks

“Live” analysis results (display updated every few seconds) with 2-4 second hot spot detection, or even lower detection limits in a few seconds more

Simplified software featuring touchscreen interface with only two menu levels - intuitive ease for highest productivity

Optional integrated global positioning system (GPS) for returning to previously checked spots without time-wasting resurveys

Quick-change battery

Exclusive SPECTRO ICAL one-sample, one-time easy calibration system



Optional docking station for stationary operation, adding stability for very small samples or for extended analysis with ultra-low detection limits

Conc.	LL	UL
CP	<65	700
BP	<5	300
CD	<22	70
HP	<6	700
SP	<10	700

SPECTRO xSORT SERVICE AND SUPPORT

Organizations engaged in high-volume compliance screening must keep multiple instruments operating at the highest possible levels of availability. To ensure that SPECTRO xSORT spectrometers meet and exceed these goals, SPECTRO offers the AMECARE Performance Services program.

More than 100 AMECARE service engineers based in 20 countries help to ensure peak performance and extended useful equipment life via high-value, customized services. These can include proactive maintenance programs; application solutions; access to relevant experts; and training.

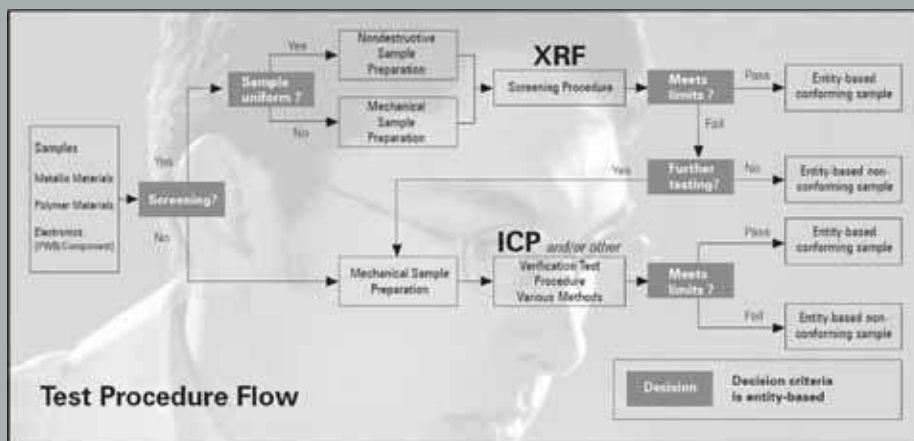


SPECTRO xSORT Specifications



Detector	High resolution silicon drift detector (SDD)
Excitation	X-ray tube, Rh anode, 50 kV max.
Dimensions and weight (including battery pack)	Height: 270 mm (10.7") Width: 93 mm (3.7") Depth: 230 mm (9.1") Weight: 1.64 kg (3.62 lb)
Spectrometer control	Integrated PC with Touch Screen, Windows Mobile 6.0, Interfaces: Bluetooth, Wireless LAN, USB Host/Client
Software	SPECTRO XRF Analyzer CE ICAL (Intelligent Calibration Logic) Analysis mode with Pass/Inconclusive/fail display for Screening, Sorting mode (Fast pass/fail assessment) Result manager for post-processing of testing results
Accessories (Included)	Transport case Instrument/battery Holster 2 nd battery pack Charger USB-Cable Consumables (films)
Accessories (Not included)	Docking station Small parts/wire adapter Printer Barcode reader
Options	Video camera Internal GPS receiver

Test Procedure Flow according to (IEC 62321)



SPECTRO: The industry's most comprehensive analytical line

While XRF is recommended for screening measurements, the standard also recognizes that only methods that eliminate sample effects can be used as verification tests for the final confirmation of compliance. These are invariably solution techniques like ICP-OES spectrometry, and instruments like the SPECTRO ARCOS represent the state-of-the art in such instrumentation.

It has been mentioned before that in the case of RoHS, analysis of finished products may not be needed if it can be demonstrated that fully compliant materials have been used in their manufacture. The SPECTRO XEPOS is a high sensitivity, laboratory EDXRF instrument suitable for screening bulk materials.

Whatever the choice is, SPECTRO's more than 30 years of experience in elemental analysis and record of technological innovation ensures the best results in the business.

www.spectro.com



GERMANY

SPECTRO Analytical Instruments GmbH
Boschstrasse 10
D-47533 Kleve
Tel: +49.2821.8922102
Fax: +49.2821.8922202
spectro.sales@ametek.com

U.S.A.

SPECTRO Analytical Instruments Inc.
91 McKee Drive
Mahwah, NJ 07430
Tel: +1.800.548.5809
+1.201.642.3000
Fax: +1.201.642.3091
spectro-usa.sales@ametek.com

Hong Kong (Asia-Pacific)

SPECTRO Analytical Instruments
(Asia-Pacific) Ltd.
Unit 1603, 16/F., Tower III Enterprise Sq.
No. 9 Sheung Yuet Road
Kowloon Bay, Kowloon
Tel: +852.2976.9162
Fax: +852.2976.9132
spectro-ap.sales@ametek.com

Subsidiaries: ▶ CHINA: Tel +86.10.8526.2111, Fax +86.10.8526.2141, spectro-china.sales@ametek.com, ▶ FRANCE: Tel +33.1.30688970, Fax +33.1.30688999, spectro-france.sales@ametek.com, ▶ INDIA: Tel +91.22.28364750, Fax +91.22.28363613, mumbai@unispecmarketing.com, ▶ ITALY: Tel +39.02.946931, Fax +39.02.94693650, spectro-italy.sales@ametek.com, ▶ JAPAN: Tel +81.3.6809.2405, Fax +81.3.6809.2410, spectro-japan.sales@ametek.com, ▶ SOUTH AFRICA: Tel +27.11.9794241, Fax +27.11.9793564, spectro-za.sales@ametek.com, ▶ SWEDEN: Tel +46.8.5190.6031, Fax +46.8.5190.6034, spectro-nordic.sales@ametek.com, ▶ UNITED KINGDOM: Tel +44.1162.462950, Fax +44.1162.740160, spectro-uk.sales@ametek.com. ▶ SPECTRO operates worldwide and is present in more than 50 countries. For SPECTRO near you please visit www.spectro.com/worldwide. © SPECTRO 2011, Subject to technical modifications • Rev 1 • K-11, Photos: SPECTRO, Gettyimages, Corbis, istockphoto.
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