

SPECTRO xSORT_{XHH03}

HANDHELD EDXRF SPECTROMETER



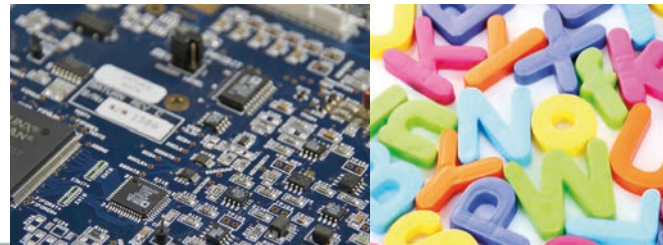
Compliance screening and elemental analysis
on-site in seconds

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 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

X-ray safety gasket to prevent backscatter radiation from light element matrix samples

Optional integrated GPS



Optional integrated video camera for precise spot testing, with visual memory storage

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

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

“Live” analysis results (display updated every few seconds)

High resolution, high sensitivity SDD detector

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

Easy-to-use wireless LAN to deliver results anywhere on network; users can view and manage results or collaborate remotely and archive the information

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

Below Limit			
	Conc.	LL	UL
Cr	<67	700	
Br	<5	300	
Cd	<22	70	130
Hg	<6	700	1300
Pb	<10	700	1300

Ready to measure (PPM)

SPECTRO xSORT: SERVICE AND SUPPORT

So that SPECTRO xSORT instruments continue to meet and exceed customer availability goals, SPECTRO offers AMECARE Performance Services. The program fields more than 200 service engineers in more than 50 countries. The high-value, customized services they deliver help ensure optimum performance and the longest possible equipment life. Available AMECARE support includes protective maintenance programs, applications solutions, expert consultation, and targeted training.

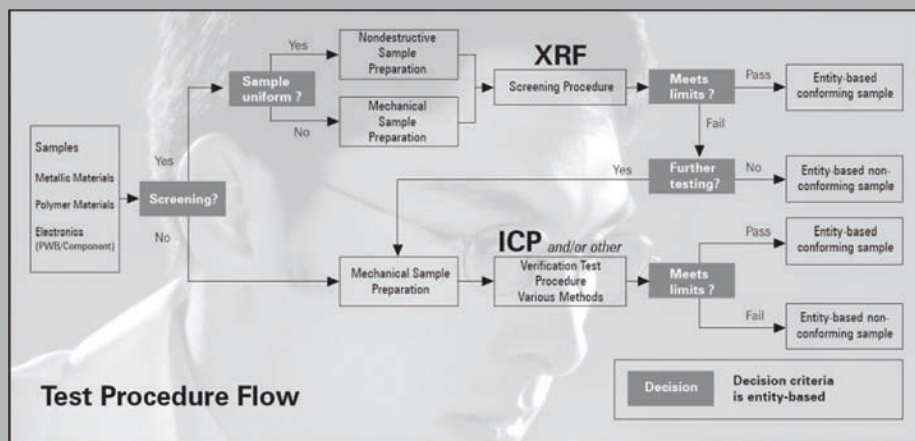


SPECTRO xSORT Specifications



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 (integrated) 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



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▶ SPECTRO operates worldwide and is present in more than 50 countries. For SPECTRO near you, please visit www.spectro.com/worldwide

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