



The new measure of speed and productivity:

SPECTRO xSORT

For refineries, power plants, and petrochemical complexes, positive material identification (PMI) plays a critical role in ensuring process integrity — as well as facility and personnel safety. Use of the wrong alloy or an off-spec grade of stainless steel can permit flow-influenced or acidic corrosion of pipes, valves, or welds. The consequences can be catastrophic.

Operators must inspect huge volumes of structural materials from a wide range of suppliers with all possible speed and precision. Fortunately, the new SPECTRO xSORT provides an ideal solution for PMI productivity challenges.





THIS HANDHELD ENERGY DISPERSIVE X-RAY FLUORESCENCE (EDXRF) SPECTROMETER furnishes high-throughput elemental testing and spectrochemical analysis of myriad materials in widely varying conditions. Its breakthrough speed, accuracy, and ease of use make SPECTRO xSORT the essential new tool for infrastructure integrity testing across multiple industries.

NEED IN 2 SECONDS FLAT

SPECTRO xSORT delivers metal (alloy) grade identification and material verification in only 2 seconds for most alloys! Just 10 additional seconds are necessary for the sorting of various alloys containing light elements, such as Al, Mg, Si, P and S.

CAN RELY ON IN 2 SECONDS

SPECTRO xSORT delivers highly dependable laboratory-like analyses in only 2 seconds, except for the light elements, they require a longer measurement time. Service companies may complete several hundreds of inspections per shift, for

enhanced productivity and profitability.

With SPECTRO xSORT, operators don't have to switch methods between metals or bother with flushes or vacuum systems. Its compact, one-piece 1.64 kg (3.62 lb) design is optimized for easy use in the field, even in less accessible or tight spots.

ANY ALLOY, ANY TIME

SPECTRO xSORT advantages for PMI



SPECTRO xSORT SERVICE AND SUPPORT

Organizations with high volumes of work must keep their fleets of 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.









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 grade ID/grade verification option, Sorting mode (Fast pass/fail assessment) Result manager for post-processing of testing results

nd battery pack Charger USB-Cable

Video camera Internal GPS receiver

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AISI 303				
Element	Measurement time: 12 Sec			
	Certified Value [%]	Average Value [%]	2*SD [%]	
Si*	0.63	0.8	0.3	
Mn	1.87	1.72	0.07	
S*	0.38	0.30	0.04	
Cr	17.35	17.8	0.05	
Mo	0.58	0.59	0.03	
Ni	8.64	8.69	0.06	
V	0.11	0.08	0.01	
Cu	0.51	0.46	0.05	
*Note that only grade identification is possible with S and Si. If more the				

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AISI 304				
Element	Measurement time: 2 Sec			
	Certified Value [%]	Average Value [%]	2*SD [%]	
Mn	1.48	1.3	0.1	
Cr	18.37	18.5	0.2	
Mo	0.20	0.21	0.02	
Ni	8.09	8.1	0.2	
Cu	0.40	0.4	0.1	
AISI 321				

AISI 321				
Element	Measurement time: 2 Sec			
	Certified Value [%]	Average Value [%]	2*SD [%]	
Mn	1.52	1.2	0.2	
Cr	17.45	17.6	0.1	
Mo	0.36	0.38	0.03	
Ni	9.42	9.5	0.1	
Ti	0.63	0.67	0.04	
V	0.13	0.11	0.022	
Cu	0.30	0.20	0.080	

Unlike other handheld instruments, the SPECTRO xSORT spectrometer takes its place among today's most complete suite of advanced metals analyzers.

For example, the SPECTROTEST is the mobile spectrometer to select if even more power and accuracy are needed, as when trace elements must be detected. Additional elements like carbon and nitrogen can be analyzed, e.g. L from Non-L grades distinguished by carbon content and duplex steels can be identified by their nitrogen content. And among stationary SPECTRO MAXx and LAB models, SPECTRO's top-ofthe-line SPECTRO XEPOS XRF instrument, plus the SPECTRO ARCOS and SPECTRO GENESIS ICP spectrometers, are well-known performers in petrochemical labs worldwide.

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



Accessories (Included)

Accessories (Not included)

Options

www.spectro.com



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