

Eco Series / MAXXI 5

High versatility with optimised price-performance

The right range of products for your analytical requirements

Our coating thickness measurement instruments are based on X-ray fluorescence, which is a widely used and proven analytical technique offering easy to use, fast, non-destructive analysis with no sample preparation. Analysing solids and liquids over a wide element range of ^{22}Ti to ^{92}U in the periodic table.

Advantages

- Excellent price-performance ratio
- Ease of use
- High reliability for 24/7 operation
- Fast customer service response time

The Eco series offers the best price-performance ratio available today, **MAXXI 5** is ideal for users who demand the highest measuring precision with versatility.

Optimised X-ray geometry within the sample chamber allows the use of small collimators, ensuring measurements are always of the highest accuracy and the best precision.

Non-destructive measurement in only a few seconds

- Single or multi-layer analysis for quality assurance and process control
- Quantitative analysis of alloy composition
- Metal ion content for optimum plating bath control

Options for MAXXI 5

- For best results regardless of sample size: Automatic multiple collimators with programmable X-ray tube current
- For automated and batch measurement: Software-controlled XYZ table and analysis head movement for the greatest flexibility

Best price performance ratio

COMPACT Eco



Manual XYZ table option

MAXXI Eco
Large sample chamber



MAXXI 5
Large sample chamber

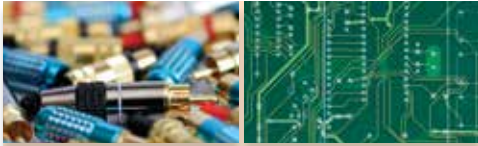


Automatic XYZ table and automatic collimator changer options

Conforms to ASTM B568 and ISO3497 International test methods

OXFORD
INSTRUMENTS

The Business of Science®



Electronics

Au	SnPb	Sn	
Ni	Ni	Ni	Ag
Cu	Cu	Ag	Cu
Epoxy	Epoxy	Epoxy	Epoxy

Solderability

Au	Au	
Pd	Ni	Ni
Ni	Ni	Ni
Cu	Cu-alloy	Cu

Electrical Contact

NiP
Al

Surface Finish

Electrical and electronic components

Increase productivity with better process control

- Component reliability assurance
 - Solder alloy composition and thickness measurement
- Lifetime product assurance through optimised quality control

For example:

- Analysis of gold and palladium thickness of electrical contacts
- Coating thickness of NiP layer on computer hard discs

Au
Pd
Ni
Cu

Top layer:

Au (gold) coating thickness

Second layer:

Pd (palladium) coating thickness

Third layer:

Ni (nickel) coating thickness

Fourth layer:

Substrate



Metal Finishing

ZnFe	Cr	NiP	Corrosion Resistance
Fe	Fe	Fe	

TiN	TiAIN	Cr	Wear/Heat Resistance
Tool-steel	W-carbide	Fe	

ZrCN	Cr	AuCuCd	Cosmetic Finish
Brass	Ni	Ni	
	Cu	Cu	

Metal Finishing

Minimise production cost of the plating process and maximise production output

- Speed and simplicity of analysis
 - Single or multi elements coating thickness analysis and coating composition
 - Analysis of up to 4 layers
 - Plating bath analysis



Metal Alloy

% Au	% Cr	% Au
% Ni	% Fe	% Ag
% Cu	% Ni	% Cu
% Zn	% Mo	% Zn

Assay and ID

Metal alloy composition and identification

Rapid, non-destructive analysis of jewellery and other alloys

- Precious metal alloy assay
- Karat analysis
- Material identification

OiService worldwide service and support

Oxford Instruments Customer Service recognises there are many decisions to make when choosing the right product and company with which to partner. It is not just about superb instrument functionality or the rugged design of the analyser. The OiService teams are aware of the necessity to demonstrate our depth of knowledge, skills, experience and expertise with regard to supporting our customers.

Oxford Instruments offers a range of support packages that provide you with the level of service you require:

- Extended warranty contracts
- Tailored service support contracts
- World class training academy
- Technical help desk support
- Genuine approved Oxford Instruments spare parts
- Consumable products
- Service repair at OiService facility

Please ask about details of our comprehensive range of products or visit our website at:

www.oxford-instruments.com/ia-customerservice

Visit www.oxford-instruments.com/coating for more information

www.oxford-instruments.com

This publication is the copyright of Oxford Instruments plc and provides outline information only, which (unless agreed by the company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or regarded as the representation relating to the products or services concerned. Oxford Instruments' policy is one of continued improvement. The company reserves the right to alter, without notice the specification, design or conditions of supply of any product or service. Oxford Instruments acknowledges all trademarks and registrations. © Oxford Instruments plc, 2014. All rights reserved. Part no: OIIA/124/0514



The Business of Science®

