

SCRAP

X-MET7000 Series

'Grade and trade' – Designed for your environment

New look, new feel, new fast user interface, new reporting power



Increase productivity
and profitability with the
X-MET7000 Series

Rapid / Rugged / Reliable

OXFORD
INSTRUMENTS

The Business of Science®



X-MET7000 Series

Why compromise? Choose Oxford Instruments



The **X-MET7000 Series** handheld energy dispersive X-ray fluorescence (EDXRF) analysers are designed with your needs in mind, for your environment. Rugged and rapid multi-element analysers combine both ease of use and analytical results of unsurpassed accuracy. They provide you with the exceptional level of performance for which Oxford Instruments has been known for more than 50 years.

**Faster!
Lighter!
Smaller!**

The **X-MET7000 Series** handheld XRF analysers are invaluable tools at the scrap yard. Sort scrap from stainless steel to aluminium alloys, from plastics to wood and electronics components.

The **X-MET** enables you to quickly and reliably identify scrap metal and determine its value, maximising your profits.



Proven 'point and shoot' simplicity: Verification in seconds...



Rapid and accurate analysis

- Field proven 'point and shoot' analysis
- Easy to learn and fast to use
- Correct grading in seconds!
- High speed averaging for effortless batch evaluation
- Automatic selection of Empirical and Fundamental Parameters calibrations for the highest confidence in your results
- Suitable for sorting alloys as well as for screening of unwanted or hazardous trace elements at low levels
- Automatic compensation for varying sample shapes and sizes, providing superb accuracy even when analysing small samples and uneven surfaces



Extensive grade library

X-MET7000 Series' extensive grade library ensures the correct grade is always displayed. Users can modify and add new grades to the library, such as manufacturer or location specific grades.

Empirical calibrations are derived by measuring certified reference materials, and provide traceability for an unbeatable confidence in results.

The pre-loaded, user-selectable grade libraries (AISI, DIN, JIS, GB...) include:

- Nickel alloys
- Stainless steels
- Copper alloys
- Aluminium alloys
- Cobalt alloys
- Low alloy steels
- Tool steels
- Titanium alloys
- Zirconium alloys
- And many more



Advanced analytical capability, rugged, reliable, designed with you in mind

Built to last

Rugged design that withstands the harshest environments and weather conditions:

- Impact-resistant plastic housing with environmental sealing
- IP54 compliant (equivalent to NEMA 3) for superior protection against dust and water
- Fitted with rubber bumpers around the screen, sides of the analyser nose, and battery, to provide protection against shocks and to prevent slipping from uneven surfaces (e.g. pipes)
- Up to 10–12 hours battery life: operate for over a day on a single battery charge
- From extreme heat to freezing cold, **X-MET** always delivers the highest levels of performance



Great ergonomics and comprehensive range of accessories for flexibility and high productivity

- Light and compact, yet rugged design (weight < 1.8 kg)
- Convenient and comfortable handle grip
- Accurate and reliable trigger
- Optimised display position for easy viewing in all weather conditions and measuring angles
- Holster for simple transportation and protection when on site, leaving your hands free
- Optional integrated camera for accurate positioning on the sample, image storage for future reference, and inclusion in reports. Option available on the X-MET7000 eXpress and X-MET7500.



SCRAP

Let the **X-MET** turn your scrap into profits

The top performer just got better!

| ELEMENT % | STD | LIMIT |
|-----------|--------|---------------------|
| Ti | < 0.00 | 0.025 - 0.10 |
| V | 0.04 | 0.017 |
| Cr | 18.57 | 0.141 18.00 - 20.00 |
| Mn | 1.52 | 0.089 - 2.00 |
| Fe | 70.51 | 0.200 65.00 - 80.00 |
| Cn | 0.36 | 0.073 |
| Ni | 8.14 | 0.150 8.00 - 10.00 |
| Cu | 0.43 | 0.036 |
| Nb | 0.00 | 0.003 - 0.10 |

Measurement results

| ELEMENT % | AVERAGE | STD |
|-----------|---------|-------------|
| Fe | 67.32 | 67.52 0.195 |
| Cr | 16.42 | 16.82 0.198 |
| Ni | 10.64 | 10.29 0.243 |
| Mo | 2.07 | 2.09 0.022 |
| Mn | 1.87 | 1.78 0.088 |
| Si | 0.38 | 0.29 0.093 |
| Ti | 0.24 | 0.18 0.058 |
| S | 0.15 | 0.13 0.025 |

Average measurement



Main menu



Ease of use – maximum productivity

NEW icon driven user interface with large touch screen

- Fast and easy to use, minimal training required, intuitive
- Large, clear functional icons for easy operation, even with gloves on
- Large grade display with closest match information
- See your analysis results more clearly on the largest screen on the market (4.3")
- Bright, high contrast, advanced Blanview® LCD touch screen for optimal viewing even in direct sunlight
- Results screen can be customised by user to suit individual requirements and display elements of interest only and/or Pass/Fail messages
- User interface available in 13 languages

NEW enhanced data download reporting flexibility

- The **X-MET** can store up to 100,000 results including the spectra
- Download results and reports directly on USB memory stick, or onto PC using a USB cable
- Create customised analysis reports with new Report Generator software
- Secured PDF report format for ultimate data security – no possibility to tamper with the results
- **X-MET** remote software runs in a web browser window: no special software installations are required
- Advanced data transfer options and reporting software are all included as standard



Configuration options

To suit your analysis needs



| X-MET7000 Quicksort | NEW X-MET7000 eXpress | X-MET7500 Scrap Metal Analyser |
|--|--|---|
| <ul style="list-style-type: none"> ● Cost effective solution for the sorting of common alloys ● Determines elements from K to U ● Includes 40kV X-ray tube and high performance Si PIN diode detector | <ul style="list-style-type: none"> ● The right tool for faster grading and shorter analysis times ● Determines elements from K to U ● Low limits of detection for trace elements analysis ● Includes 40kV X-ray tube and high performance silicon-drift detector (SDD) | <ul style="list-style-type: none"> ● Fastest sorting and accurate composition analysis of the widest variety of materials ● Determines elements from Mg to U ● Light elements analysis (Mg, Al, Si, P, S) without Helium or vacuum ● Determination of tramp and trace elements ● Includes 45kV X-ray tube for enhanced heavy elements performance ● Includes highest performance silicon-drift detector (SDD) |

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/x-met7000 for more information

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