



*The Business of Science®*

# X-MET8000

EXPERT GEO



## MINING

The tool of choice for mining exploration,  
planning and grade control



WITH BOOST™  
TECHNOLOGY





The **X-MET8000 Expert Geo** is a versatile handheld X-ray fluorescence (HHXRF) analyser that can be used for geochemical analysis at various stages of the mining process, from the early stages of exploration, through to process waste analysis.

The mining industry is facing a number of unprecedented challenges: a slowdown in major economies, highly volatile commodity prices, declining grade quality, increased production costs and more stringent regulatory requirements. To remain competitive, mining professionals are focusing on operations efficiency and excellence, as well as reducing costs across their business. It's vital that businesses investing in analytical equipment select with care, opting for robust, reliable, and multi-purpose tools.

The **X-MET8000 Expert Geo** from Oxford Instruments has been specifically developed to meet the tough requirements of the mining industry. Our analyser is portable, easy to use, and helps dramatically reduce the need for laboratory analyses and their associated cost, making it the tool of choice for mining professionals.



# WHY CHOOSE THE X-MET8000 EXPERT GEO?

## SPEED



Outstanding performance: results you can trust in seconds.

## RUGGED & DURABLE



Proven ruggedness and reliability: the **X-MET** won't let you down.

## DATA MANAGEMENT



Real-time data sharing for fast decision making.



# SUPERIOR PERFORMANCE FOR HIGH TESTING THROUGHPUT

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Our large area silicon-drift detector (SDD) and revolutionary BOOST™ technology provide up to 10 times the sensitivity of other HHXRF models. This delivers the low limits of detection needed to measure pathfinders or penalty elements and fast and repeatable analysis for results you can trust, day after day.

The **X-MET8000**'s speed means you can carry out high volumes of analyses and complete testing programs quickly, saving you time and money.

With **X-MET8000 Expert Geo** you can measure up to 40 elements to meet your current and future testing requirements (extra elements can be added on request). Using this analyser also enables you to quantify rare earth elements (REEs) such as La, Ce, Pr and Nd and test a wide variety of sample types e.g. rocks, cores, cuttings and powders. A blank sample and a certified mining check sample are provided with the **X-MET** to ensure measurement traceability and accuracy.





## Rugged for low cost of ownership

The **X-MET8000** is designed to withstand the harshest environments and weather conditions: it is **IP54 compliant** (equivalent to NEMA 3) for superior protection against dust and water and has been tested to **MIL-STD-810G** military standard for ruggedness. It features a large heat sink for optimum stability, even in hot environments (no need to wait for detector cooldown between analyses) and comes with a compact, rugged and waterproof case for transportation and storage.

## Advanced data management in the palm of your hand

Data management with the **X-MET8000** is very versatile: you can store up to 100,000 results on the analyser, download them to a USB stick or PC in CSV format or tamper-proof PDF for ultimate data integrity. You can print results on-site on a portable Bluetooth printer and attach them to sample bags to avoid mix-ups. Alternatively you can create fully customised reports using the **X-MET** report generator. Sharing results on-the-go with clients or colleagues is easy with the **OiConnect** app, and the **OiConnect** cloud service enables you to export results securely in real-time, and access them anytime anywhere. You can even manage results from a whole fleet of **X-METs** with a single **OiConnect** account.



## Easy to use

With its intuitive user interface and proven 'point and shoot' simplicity, you only need minimal training to operate this analyser. Its large 4.3" colour touchscreen provides excellent results visibility even in direct sunlight. It is icon-driven for easy operation and can be used with gloves on. The **X-MET8000** features a quick-swap analysis window, so you don't need a tool to change the window if broken or dirty. The screen is customisable for fast decision making: you can list elements in your preferred order, include pass/fail messages, user-defined compounds or calculations. Ergonomic and lightweight (1.5kg with battery), the **X-MET** can be used for a long period of time without getting tired, and its 10-12 hours of battery life ensures uninterrupted workflow. A comprehensive range of accessories is available to make testing even easier.

## GPS/GIS integration

The **X-MET** integrated GPS enables you to combine geolocation data with analyses results for flawless site mapping. When more accurate location data is required, the **X-MET** also works with Trimble® receivers.

# ADDING VALUE THROUGHOUT THE MINING PROCESS



## Exploration and mine mapping

Screen a wide range of elements (Mg to U) fast. Detection limits down to ppm level ensure that you can identify all critical elements on-site, facilitating decision making.



## On-site excavation control

Save time and money: reduce the number of samples sent to the lab for selective mining and production planning. Identify the boundaries of ore reserves and minimise the need to excavate waste rock.



## Grade control

Monitor the concentrations of key elements in ore, and identify penalty elements accurately with little or no sample preparation.



## Process monitoring

Take the **X-MET** from place to place to test stockpiles, feeds, concentrates, tailings, etc. and make process adjustment decisions quickly.



## Environmental management

Test mine-waste rock and tailings for potential impact on the environment and waste management planning, and monitor hazardous elements down to ppm levels.

OiService®



The Business of Science®

## We're here to help you

OiService aims to keep your **X-MET** working as hard as you do. Our global network of service hubs provides a full range of technical support:



### Telephone help-desks

For a fast response to your problem.



### Online diagnostics

In-depth support over the internet.



### Rental instruments

To keep you working if your analyser is not.



### Recertification and maintenance

Ensures your analyser produces the right result year after year.



### Training

Understand your analyser and its features.



### Extended warranties

Avoid unplanned costs.



### Consumables and accessories

From spare batteries to benchtop stands.



### Repairs

Fast and efficient turnaround.

# WHAT NEXT?



## Put the X-MET8000 Expert Geo to the test.

The X-MET8000 Expert Geo delivers reliable results in seconds. It is built to last and its rugged design will withstand the harshest conditions. Easy to use and with a long battery life, the X-MET is an analyser that won't let you down.


The tool of choice for mining exploration, planning and grade control.




## MORE INFORMATION

Visit [www.oxford-instruments.com/geo-mining](http://www.oxford-instruments.com/geo-mining)  
or contact one of our experts [mining@oxinst.com](mailto:mining@oxinst.com)

Oxford Instruments: providing solutions to the soil industry.

 X-Supreme: benchtop XRF analyser for process and quality control.

 X-MET8000 Expert Geo: for rapid field analysis.



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