QEMSCAN® - Cutting Edge Technology for Concentrate Contaminant Analysis

QEMSCAN - SOLUTION FOCUSED TECHNOLOGY

QEMSCAN is a key technology that can help you identify what contaminants are present and determine causes of contamination in your concentrate product. The word QEMSCAN is an abbreviation standing for Quantitative Evaluation of Minerals by SCANning electron microscopy. As experts in mineralogical analysis and mineral laboratory services across Australia and internationally, Bureau Veritas - Mineral Laboratories are proud to offer cutting edge technology solutions that enable our clients to achieve measurable results and set new standards of excellence.

OUR SERVICES

Using QEMSCAN technology, Bureau Veritas – Mineral Laboratories are able to deliver repeatable, reliable and quantifiable analysis which provides for our clients the information necessary to ensure that their concentrate product meets their contractual requirements.

Utilising integrated hardware and software, this technology can identify rock- and ore-forming minerals using backscattered electron and secondary electron signals, in combination with electron-induced secondary x-ray emission. This specialised technology can analysis many samples types including drill core, and even particulates on SEM tape or filter paper. A wide range of petrographic characteristics can be quantified, including: modal mineral proportions, grain size, phase associations, ore-type, litho-type, porosity, liberation, surface area, and grain density, to name a few.

WHY IS QEMSCAN TECHNOLOGY IMPORTANT?

Do you really know what is in your concentrate?
What contaminants are present in your concentrate?
What is the mineralogical make up of the concentrate?
Have the target minerals been extracted at the appropriate point in the process?
Does the concentrate contain gangue minerals?
What minerals contain the penalty elements?
Is the penalty element contained in a single mineral or more than one?
Is there a preferential distribution of the penalty mineral?
How did contamination occur? Entrainment? / Agglomerations? / Fine inclusions?
How do I eliminate these contaminants in the concentrate?

Improve And Protect Your Mineral Operations.
KEY BENEFITS

- Fast and accurate identification of contaminant mineral phases
- Determine causes of contamination, mechanical vs chemical
- Visual representation of problem mineral associations
- Quantifiable, repeatable data provides valuable information for designing contaminant removal solution

WHY CHOOSE BUREAU VERITAS?

Experience  Our mineralogy team has over 20 years experience in the mining industry and more than 15 years experience in Automated Mineralogy technology. Our expertise in the usage of QEMSCAN technology allows us to tailor a solution to client’s specific needs.

Recognition  Founded in 1828, Bureau Veritas is a world leader specialising in conformity assessment services related to Quality, Health, Safety & Environment (QHSE). Certified to ISO 9001 for all of its activities globally, Bureau Veritas is well known for its ability to adapt to changing client environments and situations and for its commitment to providing leading solutions through quality service.

Knowledge & Expertise  Through expert local teams and technical knowledge, Bureau Veritas are able to deliver packaged and targeted solutions and information, to support our clients’ unique business requirements.

Network  With a vast global network operating in more than 140 countries, Bureau Veritas provides tailored solutions to clients throughout the world across a diverse range of industries.

CONTACT

For details about this service, please contact
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FOR MORE INFORMATION

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