QEMSCAN® - GRINDING CIRCUIT OPTIMISATION

Cutting Edge Technology for Grinding Circuit Optimisation

SOLUTION FOCUSED TECHNOLOGY

QEMSCAN is a key technology that can help you in the design of new grinding circuits or in the optimisation of existing circuits. QEMSCAN provides integrated automated mineralogy solutions for the quantitative analysis of minerals, rocks and man-made materials. 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 QEMSCAN solutions to achieve measurable results and set new standards of excellence for our clients.

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 design or optimise grinding circuits. Utilizing 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, etc.

WHY IS QEMSCAN TECHNOLOGY IMPORTANT?

| What information do you need to optimise your recovery circuit? |
| What minerals make up the feed material? |
| Will I need to add a neutralising agent? e.g. carbonates vs sulphides |
| What minerals contain my target element(s)? |
| Will there be a need for multiple extraction stages? |
| What is the grain size distribution of my target mineral? |
| Does the grain size distribution change across the deposit? |
| What is the optimal grind size for my target mineral? |
| Has my target mineral been liberated? |
| Am I over or under-grinding my material? What is this costing me in energy usage vs recovery? |

Improve And Protect Your Mineral Operations.
KEY BENEFITS

- Quantitative mineralogy, know exactly what is entering your mill
- Predict plant performance and metal recoveries with locking and liberation data
- Determine causes for fluctuating reagent usage
- Study individual minerals and mineral groups, information tailored to your specific needs
- Historical data comparison, track changes to the ore over time

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

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FOR MORE INFORMATION

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