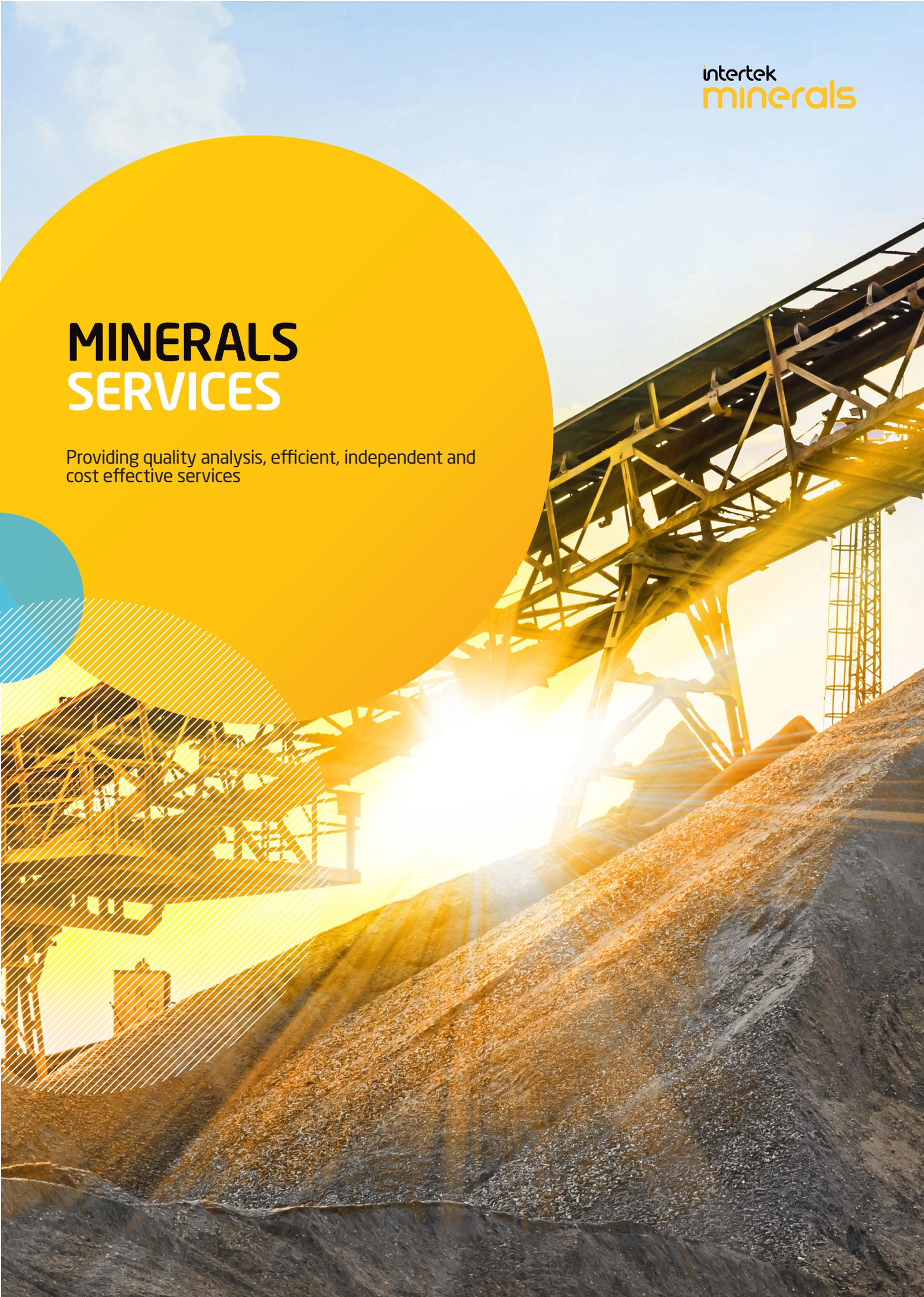


MINERALS SERVICES

Providing quality analysis, efficient, independent and cost effective services





Total Quality Assurance across the resources supply chain

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 44,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek supports companies' success in the global marketplace, by helping customers to meet end users' expectations for safety, sustainability, performance, integrity and desirability in virtually any market worldwide.

Our network of mineral laboratories offers world-class geochemical assay and testing services including sample preparation, fire assay and precious metal analysis, exploration geochemistry, environmental testing, mine-site laboratories, coal testing and inspection, consulting minerals inspection, robotics and automated laboratory systems.

From grassroots exploration to final product shipment, Intertek provides minerals testing, inspection and certification services to support mining activities around the world.

Mineral geochemistry

Intertek is committed to providing geochemistry solutions using the latest technology coupled with proven methodology across a wide range of commodities at all stages in the mining life cycle. Our network of global analytical laboratories in key locations are supported by strategically located sample preparation facilities, accessible to mining regions and mobile sample preparation units available onsite at your projects.

Multi-element analysis for a wide range of elements in a variety of sample matrices is available with advances in instrumentation and methodology offering significant improvements in aligning detection limits with elemental crustal abundances and providing exceptional long term data reproducibility.

The selection of the most appropriate method is critical to achieving the most successful outcome for your project and Intertek technical staff are available to discuss the best options for your project.

Geochemistry Services Include

- Sample preparation
- Precious metals analysis
- Exploration geochemistry
- Partial digest geochemistry
- Biogeochemistry
- Ore grade analysis

Mineralogy

Intertek's leading expertise and state-of-the-art facilities offer a range of mineralogical services. Technical specialists in XRF and XRD support local and global operations, producing quality reliable data with the reassurance of years of experience and a proven track record.

- Research quality lithochemical packages
- Applied bulk mineralogy
- XRD instrument and specialists on site
- Low cost XRF & spectral scanning
- TerraSpec Near-Infrared Spectroscopy
- FTIR Spectroscopy
- Applied Micro Mineralogy QEMSCAN

Robotics and automated minerals laboratory systems

Intertek is the largest global commercial operator of automated and robotic mine site laboratories.

Intertek automated and robotic sample systems are purpose built, ranging from individual cells to fully integrated systems, providing complete end-to-end sampling to analysis solutions.

Using advanced robotic sample handling technology for minerals testing has distinct advantages, including rapid sample throughput, unparalleled consistency, exclusion of human error, a comprehensive audit trail, synchronised process control, reliability and fully programmable comminution parameters. Programmable parameters ensure that ores obtain the requisite treatment consistently. Robotic systems reduce OH&S exposure to employees, eliminating heavy lifting and isolating personnel from hazardous materials. Thus, significantly improving safety.

Mine-site laboratories

Intertek designs, commissions and operates dedicated mine-site laboratories in remote locations and key mining regions across the globe and supports a range of mineral commodities. Mine-site laboratory services range from sample preparation installations to full service analytical laboratories and automated robotic facilities.

Intertek's minerals laboratories are operated by experienced personnel with support from an extensive global laboratory network. Fast, accurate and independent mineral analyses by Intertek allow mining companies to effectively manage their process control and regulatory reporting requirements. Outsourcing your mine-site laboratory to Intertek ensures your operation will benefit from world-class expertise and services, which enables your company to focus resources and capital on the core business.

Minerals trade services

Intertek independent inspection, sampling, testing and certification services assist to protect the quantity and quality of mineral commodities reducing commercial risk in the trading environment.

Intertek's network of trade inspectors and samplers survey, weigh and sample a range of high value bulk commodities and concentrates. Elemental analysis is a key service that is provided for all commodities with locally accredited laboratories for shipment analysis and globally specialised laboratories for party assays. Intertek certificates of weight and quality support commercial contracts and settlement through party exchanges. Umpire analysis is provided through Laboratory Services International BV (Intertek LSI), a London Metal Exchange (LME) listed sampler and assayer, based in Rotterdam and globally viewed as a leading independent analytical expert recognised as an industry leader for accuracy, service and quality.



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