



# MINERALS PROFICIENCY TESTING PROGRAMS RELY ON THE WORLD'S BEST

## Ensure that your laboratory meets the mark in delivering quality analysis and results.

Through specialized proficiency testing programs (PTPs), SGS LQSi offers quality assurance that is required of labs certified to the ISO/IEC 17025 standard. We provide objective evidence that supports your ability to meet the ever-increasing demands of laboratory quality management systems developed by national, international and industry standards organizations. Proficiency testing data can also be used to demonstrate your laboratory's competence to prospects, customers, shareholders and other entities that are critical to the success of your business.

## WHY SGS LQSi?

### Technical Leadership

As a division of SGS, the world's leading inspection, verification, testing and certification company, we have access to an unrivaled global network of over 2,600 labs/offices across the world that specialize in various technical disciplines. We offer a wide range of PTPs to suit our clients' needs, with ongoing research and development that allows us to expand the parameters of our testing and the commodities that we include in our testing suite. Technical governance is built into our operational processes and our team members act as leaders across mining disciplines by participating in national and international standards-development activities including:

- ASTM Committee D05 on Coal and Coke
- ASTM Committee E01 on Analytical Chemistry of Metals, Ore, and Related Materials
- ASTM Committee E11 on Quality and Statistics

Our global technical leadership is leveraged by SGS LQSi staff and supports our ability to successfully assess your monitoring and control processes to demonstrate your competency in performing specific tests and in producing data that is both accurate and repeatable. With an active pulse on the global mining industry, clients participating in our programs benefit from our ability to be more responsive with respect to evolving parameters and testing requirements.

## GLOBAL BENCHMARK FOR QUALITY & INTEGRITY

### Independent and Trusted Service Provider to the Mining Industry

SGS delivers independent and trusted services across the mining value chain to North American and international organizations. We are committed to service delivery that goes hand in hand with our reputation as the global benchmark for quality and integrity. SGS LQSi has been performing PTPs for mining organizations for over 40 years, with a steadily growing customer base. In addition to external clients, SGS LQSi acts as the quality monitoring laboratory for SGS' global network of laboratories. We are also both ISO/IEC 17025 and ISO/IEC 17043 accredited.

## PTP FEATURES

### Industry-Leading Turn Around Times

- Reports that include results reach you within industry-leading turn-around times, enabling you to move forward with next steps that might potentially be required to improve performance in certain areas – or that give you the confidence to move forward with business as usual.

### 24 X 7 X 365 Access to Reports

- Reports are available 24 X 7 X 365 through our secure online portal. Through individual usernames and passwords, members of your business can get a view into critical data from their laptops, mobiles or other hand-held devices.
- Final reports are also emailed to users specified by your organization.

### User Friendly Reporting

- Easy-to-read and easy-to-understand reports.
- Show current-round performance along with historical performance over the last twelve rounds.
- If required, historical reporting can be accessed to demonstrate ongoing competence required to meet ISO/IEC 17025 and ISO/IEC 17043 standards.
- Displayed through tabular and graphical summaries, for offline presentations that seek to demonstrate laboratory performance.
- Managers responsible for multiple laboratories benefit from specialized, single-page management reports that offer a quick view of all of their laboratories' performance at a single glance.
- Detailed parameter reports provide performance measures, repeatability and reproducibility, distributions, and runs charts.

### Customer Service from Industry Experts

- Entrusting your data to SGS LQSi means that you gain access to an industry expert who is able to answer questions about what your PTP involves.
- You also gain personal support in answering questions or gaining clarification on your results and reports – to move forward with any next steps that might be required for compliance.

## A LISTING OF OUR RANGE OF MONTHLY, BI-MONTHLY, AND QUARTERLY PTPS THAT SUPPORT SERVICE OFFERINGS OF LABORATORIES ACROSS THE MINING INDUSTRY.

### ENERGY

**6H**, High Rank Coal (212  $\mu$ m)  
**8H**, High Rank Coal (2.36 mm)  
**FT**, Fusion Temperature of Coal Ash (212  $\mu$ m)  
**MA**, Mineral Analysis (Major and Minor Elements) of Coal and Coal Combustion Residues (212  $\mu$ m)  
**BF**, Solid Biofuels (850  $\mu$ m)  
**HG**, Hardgrove Grindability Index of Coal (4.75 mm)  
**PET**, Petroleum Coke (2.36 mm)  
**MET**, Metallurgical Coal (Rheological Properties) (2.36 mm)  
**CSR**, Coke CRI / CSR  
**6L**, Low Rank Coal (212  $\mu$ m)  
**8L**, Low Rank Coal (2.36 mm)  
**EQ**, Equilibrium Moisture / Moisture Holding Capacity of Coal (4.75 mm)  
**TE**, Mineral Analysis (Trace Elements) of Coal and Coal Combustion Residues (212  $\mu$ m)  
**PC**, Petroleum Coke (212  $\mu$ m)  
**PCG**, Hardgrove Grindability Index of Petroleum Coke (4.75 mm)  
**MC**, Metallurgical Coke (212  $\mu$ m)  
**TT**, Coke Tumbler Test

### ORES AND CONCENTRATES

**BXT**, Bauxite (150  $\mu$ m)  
**CR**, Chrome Ore (75  $\mu$ m)  
**MN**, Manganese Ore (75  $\mu$ m)  
**NI**, Nickel Ore (75  $\mu$ m)  
**FE**, Iron Ore (75  $\mu$ m)  
**CU**, Copper Concentrate (75  $\mu$ m)  
**PB**, Lead Concentrate (75  $\mu$ m)  
**ZN**, Zinc Concentrate (75  $\mu$ m)  
**LS**, Limestone (75  $\mu$ m)  
**TML**, Transportable Moisture Limits ( $\leq 3$  mm)  
**LI**, Lithium Ore (75  $\mu$ m)

### INDUSTRIAL MINERALS

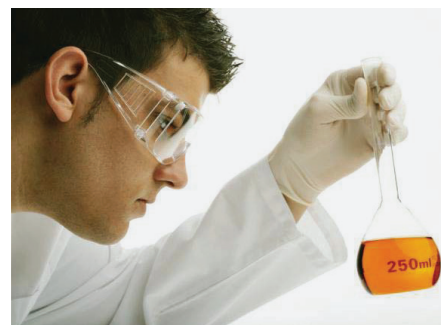
**CMT**, Cement / Cement Clinker (150  $\mu$ m)  
**ES**, Elemental Sulfur ( $\leq 3$  mm)

### FERTILIZERS

**P**, Phosphate (0.425 mm)  
**N**, Nitrogen (Urea) (75  $\mu$ m)  
**K**, Potassium (Potash) (150  $\mu$ m)  
**RP**, Rock Phosphate (0.425mm)

### GEOCHEMICAL EXPLORATION

**AUH**, High Level Gold (75  $\mu$ m)  
**AUL**, Low Level Gold (75  $\mu$ m)  
**BM**, Base Metals in Gold Ore (75  $\mu$ m)  
**BMF**, Base Metals, Na<sub>2</sub>O<sub>2</sub> Fusion (75  $\mu$ m)  
**BMP**, Base Metals, Partial Digest (75  $\mu$ m)  
**BMT**, Base Metals, Total Digest (75  $\mu$ m)  
**SU**, Sulfur in Gold Ore (75  $\mu$ m)



### REACH OUT TO US SGS LQSi

16130 Van Drunen Road,  
South Holland, IL, US 60473  
Phone: +1-708-331-3249  
E-Mail: [lqsi@sgs.com](mailto:lqsi@sgs.com)  
Website: [www.lqsi.com](http://www.lqsi.com)

### Confidentiality

- All laboratory data and methods submitted to SGS LQSi are considered to be privileged information.
- We assure that your identity and proprietary information will not be released to a third-party without your prior knowledge and written authorization.

**SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY. IN 2019, FORBES RANKED SGS AS ONE OF THE WORLD'S MOST INNOVATIVE COMPANIES AND THE DOW JONES RANKED SGS AS AN INDUSTRY LEADER IN SUSTAINABILITY PROCESSES.**

WHEN YOU NEED TO BE SURE

**SGS**