

About us

Global Sampling & Analysis (GSA) is a premier ISO-accredited laboratory, dedicated to supporting the mining and mineral industry. Headquartered in Rwanda, Kigali we provide actionable results that meet international standards ensuring quality, compliance, and confidence from mine to market.

Our lab specializes in the analysis of:

- 3T elemental analysis: Tantalum (Ta), Niobium (Nb), Tungsten (W), Tin (Sn);
- Beryllium (Be) and Lithium (Li) analysis;
- Trace-level detection of elements from Sodium (Na) to Uranium (U);
- Packages of analyzed elements: Full scan, Rare Earth Elements (REE), Semi-quantitative analysis;
- Moisture determination analysis, radiation testing, sample preparation.



We also provide professional weighing, sampling, and inspection services for a broad range of minerals and industrial consignments. Our work supports exporters, traders, and buyers across Africa and

beyond with a focus on consistency, fairness, and international compliance. Also, GSA reports are accepted by Rwanda mining authorities including for exportation. Our goal is to reduce commercial risk, uphold regulatory standards, and provide dependable field-based services wherever your supply chain operates with competitive prices, quick and quality services.



Our analysis

At GSA we use different methods of analysis to have the options for testing of wide range of elements and types of material (concentrates, ores, geological samples): **XRF-analysis, FAAS, Titrimetric analysis (wet chemistry), Gravimetric.**



Precise analysis always starts with a precise sample preparation which includes: crushing, sieving, mixing, pulverizing – as a first step. After which we use three main methods of pre-treatment for sample: fusion, dissolution and pressing.

XRF-analysis

For XRF analysis we use state-of-the-art technology and the most effective equipment in the industry to ensure the accuracy of our obtained results. We provide ISO-accredited analytical services using ED-XRF and WD-XRF equipment. To operate our specialized equipment, we have highly qualified personnel, each of whom have been certified for the completion of specialized training programs.



Titrimetric analysis (chemical)

Our chemical analysis services involve precise methods to determine the composition of mineral samples. This analysis approach complements our XRF techniques and methods, ensuring a full understanding of the true nature of the sample.



Flame Atomic Absorption

Our analysis performed using sensitive atomic absorption equipment provides highly accurate measurements of metal concentrations in mineral samples. This technique is essential for analysis of Lithium and Beryllium and for trace-level detection of elements.



Professionalism

From sample collection to final reporting, every step is guided by strict protocols and meticulous execution. According to ISO requirements, GSA participates in proficiency testing to monitor its performance relative to results of other laboratories. GSA regularly

complies with proficiency testing, with our skilled team having had successful results every time.

Inspection Services

- ✓ Supervision of the whole process
- ✓ Sealing of final package units
- ✓ Capturing the whole process with high-resolution cameras
- ✓ Splitting, division and sealing of representative sample
- ✓ Granulometry (sieve analysis)
- ✓ Radioactivity test for lot
- ✓ Container inspection
- ✓ Detailed reporting with evidence of the process

Why choose GSA for inspection?

- Weighing is carried out using calibrated weights certified by the Rwanda Standards Board, ensuring precise quantity reporting.
- Sampling is performed according to strict protocols, ensuring representative results suitable for analysis.
- Inspection is rigorously independent, whether at mine sites, consolidation hubs, or shipping ports, giving stakeholders confidence at every step of the logistics chain.

CONTACT INFO



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