

Professional. Reliable. Trusted.



Global Sampling & Analysis LTD

Analytical Laboratory



Quality mineral testing
and sampling inspection services

About us

Global Sampling & Analysis (GSA) is a premier ISO:17025-accredited laboratory specialising in independent sampling inspection and advanced elemental analysis for the global mineral industry. Headquartered in Rwanda, we provide actionable results that meet international standards ensuring quality, compliance, and confidence from mine to market.

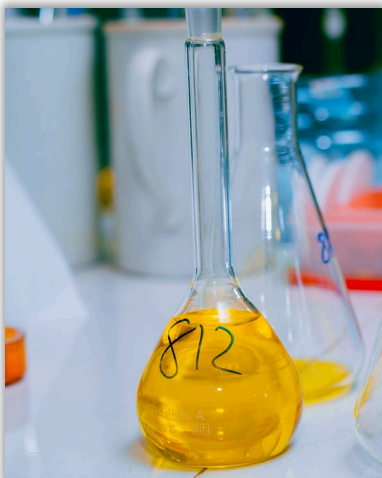


GSA provides tailored services across multiple mineral and industrial sectors, such as:

- ❖ Mining and Geological Exploration;
- ❖ Trade and Export;
- ❖ Manufacturing and Smelters;
- ❖ Government and Regulatory Bodies;
- ❖ Logistics and Supply chain.

Global reach

We perform the services across Africa and beyond, with a focus on fairness, consistency and international compliance. With a strategic presence and cross-border capabilities, we serve clients across continents, bringing global standards to every operation we touch. Also, GSA reports are accepted by Rwanda mining authorities including for exportation.



Built for critical decisions

We provide verified data and documentation that decision-makers need to support fair negotiation, smooth customs clearance, and confident trade execution.



Professionalism

From sample collection to final reporting, every step is guided by strict protocols and meticulous execution. Our systems are built to reduce friction, eliminate delays, and maximize transparency. GSA employs a diverse team of highly skilled technicians from Rwanda and abroad, ensuring both local expertise and international experience across all laboratory activities.

In line with ISO requirements, we actively participate in proficiency testing to monitor our performance and demonstrate our professionalism through comparison with other accredited laboratories. Our laboratory consistently meets these proficiency standards, with our skilled team achieving successful results in every participation.

Analysis

GSA offers a range of services tailored to client needs with uncompromising quality and accuracy.

We provide analysis for numerous periodic table elements, depending on different criteria.



Analysis by elements:



3-T analysis (Tantalum and Niobium, Tin, Tungsten)



Lithium and Beryllium analysis



Wide range of elements for trace-level detection from Sodium to Uranium

Analysis by methods:



Wet chemistry (titrimetric)



Flame Atomic Absorption



XRF-analysis



Gravimetric



Packs of elemental analysis:



Full scan



Semi-quantitative scan



Rare earth oxides (REO)



Packs for analysis of Geological samples



Packs of impurities



Analysis by concentration:



Geological samples analysis



Ores and tails analysis



Middlings
(processed products)



Concentrates analysis



Other services related to sample analysis:



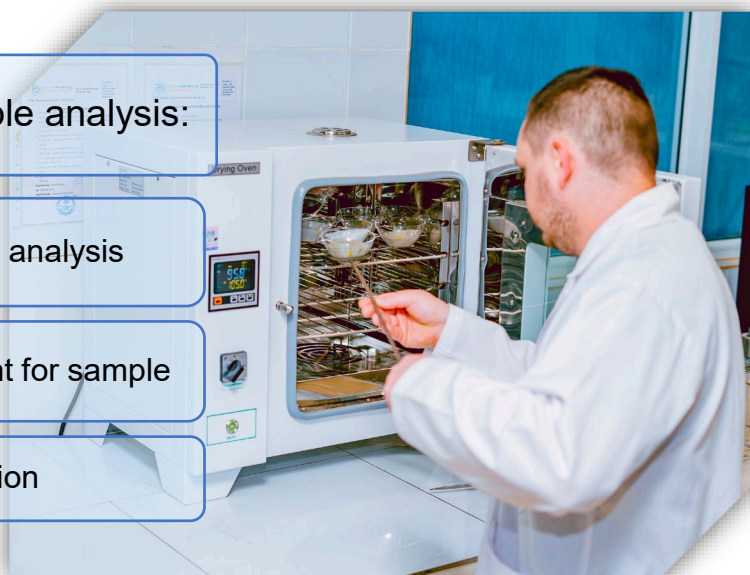
Moisture determination analysis



Radioactivity measurement for sample



Sample preparation



Flame Atomic Absorption (AAS)



Our analysis performed using sensitive atomic absorption 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.

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.

Energy Dispersive X-ray Fluorescence (ED-XRF)



High-precision scales



For weighing of a sample, we use world-famous Mettler Toledo scales with an accuracy of five decimal places to ensure precision in every step.

Wavelength Dispersive X-ray Fluorescence (WD-XRF)



Our equipment has advantages, which helps us be precise and timeliness :

- ❖ High Power X-ray tube upgraded for enhanced sensitivity and accuracy for elemental analysis (up to ppm-level);
- ❖ Duplex detector for wider dynamic range and for transition metals analysis;
- ❖ Automation that gives the opportunity for delayed and remote analysis performance.



To operate with sensitive equipment we have highly qualified and experienced professionals, who constantly undergo specialized training.

Our state-of-the-art WD-XRF equipment gives us the confidence to analyze a wide range of elements and impurities and release reliable results for our clients.

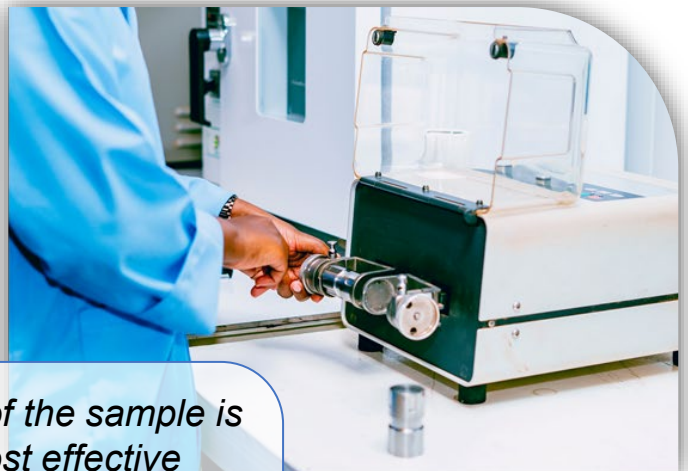
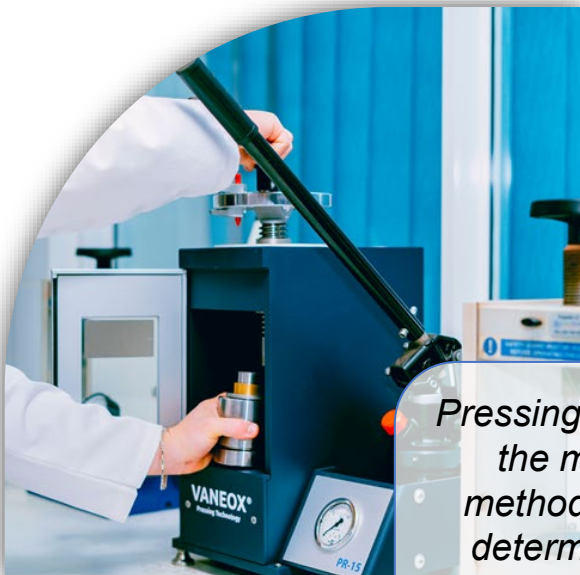
Sample preparation



Precise analysis always starts with a precise sample preparation. The first step always includes: sieving, crushing, mixing, pulverizing and splitting to achieve well homogenized representative sample for further preparations and analysis.



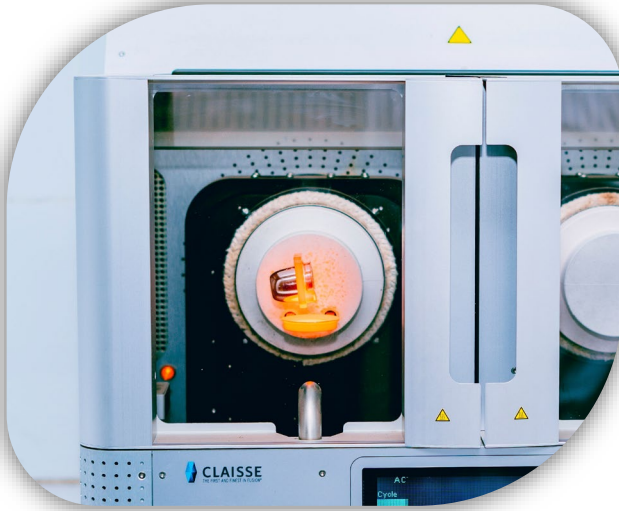
As a second step at the GSA, we use three main methods of sample preparation: fusion, dissolution and pressing. Each of them is used depending on the type of equipment, analysis method, material type and concentration, special requests from the customer.



Pressing of the sample is the most effective method for trace-level determination of light elements, which are usually volatilize during the fusion process.



Fusion is usually used for analysis of main elements and a wide range of impurities in the sample. And dissolution is mostly used for light elements such as Lithium and Beryllium.



At GSA we use different methods of sample preparation which helps to achieve complete dissolution and to exclude or minimize matrix effect before testing.



For fusion we use muffle furnace, electric and gas fusion machines – to ensure individual approach to every sample.



*A trusted and safe sampling process
is a first step to effective mining,
successful production and
responsible trading.*



Services included in inspection:



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





GSA follows industry best practices and utilizes the well-known and effective coning and quartering standard method. After the sampling, each representative sample is sealed and labelled with lot information, ready for further analysis.



Quality sampling inspection helps our clients to be sure in representativeness of every sample, to calculate taxes correctly and to ease logistics and export tasks.



Inspection is rigorously independent whether at mine sites, consolidation hubs, or shipping ports giving stakeholders confidence at every step. GSA provides inspection of all sampling stages: weighing; stuffing/de-stuffing; mixing and reducing; packing; sealing.

CONTACTINFO



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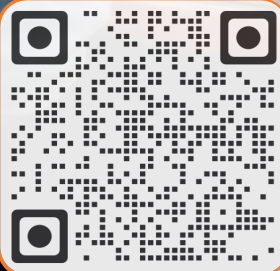
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Monday – Friday
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*Please scan the QR-code
for more details*

Our social media:
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Special thanks to Rwanda Standards Board, Rwanda Mines, Petroleum and Gas Board and the Government of Rwanda for opportunity to work and to participate in the development of the country