


 +27 12 653 1025

 geolabsglobal.com

 Units 4 & 7 Imperium Business Park,
16 Venturi Crescent, Centurion, South Africa

 enquiries@geolabsglobal.com

Geolabs

Global

Metallurgical Laboratory: Capability Statement

About Us

Geolabs Global, provider of high quality comminution, metallurgical, froth flotation and mineralogical testing services to the global mining and metals industry. A fully equipped laboratory, located in Centurion South Africa, enables Geolabs to test a wide range of ore types, while maintaining high standards; ensuring that only the best quality results and interpretations are purveyed to clients.

Divisions

- Comminution
- Metallurgy
- Froth Flotation
- Mineralogy

Our Experience

We have experience with the following: gold, copper, platinum, chromite, rare-earth elements, lithium (spodumene petalite and lepidolite), pollucite, tantalum (tantalite and microlite), heavy mineral sands, graphite, manganese, iron, tin, uranium, glass grade sand and clays.

Comminution

- JK Drop Weight Test
- SAG Mill Comminution (SMC) Test
- Bond Ball, Bond Rod & Bond Abrasion Tests
- Bond Low Energy Impact (CWi) Test

Metallurgy

- Heavy Liquid Separation (HLS) 2.4 - 4.0 g/cm³
- Crushing & Screening
- Milling with Ceramic Media & Rubber Lining
- Milling with High-Cr Media
- Milling with a Stainless Steel Drum & Charge
- Particle Size Distribution Analysis (Sieves)
- Spiral & Shaking Table Tests via Affiliates
- Dense Medium Separation (DMS) via Affiliates
- Magnetic Separation via Affiliates
- Bulk Sample Preparation

Froth Flotation

- Spodumene, Lepidolite and Petalite Flotation
- Graphite Flotation
- Iron-Ore Flotation
- Sulphide Flotation

Mineralogy by XRD

- X-ray diffraction analysis (XRD): Qualitative, Quantitative and Assay-validated