

PhotonAssay Analysis

Trusted. Independent. Committed.



For precious minerals testing, traditional chemical assay analysis, such as fire assay, can be time-consuming, labor-intensive and only measures a small volume of material. PhotonAssay analysis is a non-destructive, environmentally friendly replacement for fire assay that delivers accurate analysis for gold, silver, copper and complementary elements that is faster and safer.

SGS



What is PhotonAssay?

The non-destructive technology uses high-energy x-rays to hit samples of up to 500g, enabling rapid and enhanced analysis of gold, silver, copper and other elements. The technology is measurably safer and more environmentally friendly than previous assay processes.

PhotonAssay benefits

- Analyse gold, silver, copper and complementary elements non-destructively
- Analyse larger sample sizes allow for a more representative sample
- Get results in under two minutes, saving time and increasing efficiency
- Optimise plant performance, grade control, and geological modelling
- Improve the definition of reserves and resources
- Reduce sample preparation times and costs while ensuring better sample quality
- Avoid contaminated waste and the associated costs

SGS is at the forefront of innovation in the minerals sector with leading automation across FTIR, pXRF, NIR and PhotonAssay supporting our customers with faster, safer, and more environmentally friendly analysis.

Why choose SGS?

SGS is the world's leading testing, inspection and certification company. We provide unparalleled analytical support and analysis on geological materials containing precious, base, rare earths and battery metals, as well as bulk commodities, such as bauxite and iron ore.

To find out more about our PhotonAssay service, contact us today.

Our global network of commercial, on-site, mobile laboratories and in-field services provide high-quality analytical data to add value and help you make informed decisions.

Contact us

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