

## **CrushedCRMs™ for PhotonAssay™ (Testing Total Au, Ag and Cu)**

The use of pulverised CRMs in PhotonAssay™ can be problematic.

Our CrushedCRM™ - Primary product provides further confidence in the PhotonAssay™ Quality Control program by unlocking the following solutions:

- CrushedCRM™ - Primary has the same physical and bulk chemical properties as routine samples. The distribution of gold within the material is similar to a typical sample, located within the ~3mm particles.
- CrushedCRM™ - Primary is stable. Pulverised gold CRMs are challenging to pack consistently into the PhotonAssay™ jar and exhibit variable packing density between jars and within jars over time, causing analytical bias.
- CrushedCRM™ - Primary contains minimal fines, resulting in stable within-jar segregation of gold due to the elimination of gold-containing fine particle settling.
- CrushedCRM™ - Primary exhibits repeatable and precise PhotonAssay™ jar fill properties and does not stick to the inside of the jar.
- CrushedCRM™ - Primary is certified using a gravimetric method, therefore providing a completely independent assessment of PhotonAssay™ and restoring confidence in the technique. Neither our catalogue grades nor your tailored CrushedCRM™ product (Primary or Custom) have been used to build a PhotonAssay™ calibration, nor has their certified value been determined by a fire assay round-robin program.
- CrushedCRM™ - Primary is manufactured to specific gold grades to cover the full analytical range of the technique, with targeted grades at cutoff and at low levels where PhotonAssay™ precision needs careful monitoring.

Using our CrushedCRM™ - Pre-Mixed product, PhotonAssay™ users can benefit from submitting a truly blind CRM from the field alongside RC or blast hole samples.

- Due to its carefully designed level of internal (within-unit) heterogeneity, CrushedCRM™ - Pre-Mixed allows for the laboratory's ability to load and pack the PhotonAssay™ jars to be assessed consistently in terms of quality and reproducibility.
- CrushedCRM™ - Pre-Mixed can be truly blind when submitted to the lab from the field for analysis. All currently available pulverised gold CRMs with a PhotonAssay™ certification are controlled by the laboratories, and their properties are extensively recognised. CrushedCRM™ ensures your quality control program is controlled by you.

For a complete matrix-matched solution, CrushedCRM™ - Custom is a -3mm chip product that can be manufactured from clients' ore. Our unique patent-pending manufacturing process allows us to engineer a CrushedCRM™ product while minimising the gold nugget effect, which ensures between-unit homogeneity is fit for purpose.