

**Certificate of Analysis  
Part No. B2260  
Zinc Sulphide Standard**

Certificate Number N25G036  
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**% Sulphur (by purity)**  
**32.9 %**  
**Expanded Uncertainty = ± 0.003**  
**Purity – 99.99%**

**% Sulphur (by analysis)**  
**Mean = 32.9 %**  
**Expanded Uncertainty = ± 1.1**  
**(k=2.07, 95% confidence) (n=23)**

The intended use is for the Sulphur determination in materials using induction oxidation combustion with infrared detection or other valid test methods. The verification of this Reference Material was by induction oxidation combustion IR detection using tungsten metal and high purity iron chip for accelerators.

Reference material employed for traceability:  
High Purity Zinc Sulphide 99.99% - Lot MKCJ1451

The mean analytical values were derived by data sets showing traceability to the above-mentioned reference and reported in mass fraction. Metrological traceability is to the SI derived unit of mass fraction expressed as percent. The precision values are derived using ISO Guide 35, the Guide to Uncertainty Measurement, and ANOVA. Refer to your test method or instrument manufacturer for the expanded method derived uncertainty if needed. When necessary, professional judgment is applied toward consideration of data and statistical information.

Sample size and minimum sample size for this data was 0.05g nominal. Refer to your instrument manufacturer or test method for minimum and typical sample size that can be used. This bottle contains 50g of fine powder to be used directly from the bottle without preparation. Keep sealed tightly and store under normal laboratory conditions. While unable to determine a definite shelf life this reference should be reviewed 15 years from certification.

The material used in production of this standard was sampled in accordance with ARI 032. The samples for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard. Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event, shall Elemental Microanalysis Ltd be liable for incidental or consequential damages. This certificate cannot be reproduced except in its entirety.

This Reference Material is traceable to the above-mentioned standards. For good laboratory practice, it is recommended that all standards be verified as fit for purpose prior to use.

Certified May 29, 2020

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