

Certified Pulp Iron Ore Reference Material - GIOP-44

Certificate of Analysis

| Analyte | Units | Average | Standard Deviation | Count | 95% Confidence Interval |
|--------------------------------|-------|---------|--------------------|-------|-------------------------|
| Fe | % | 62.75 | 0.13 | 48 | +/- 0.04 |
| Fe (Calc) | % | 62.774 | 0.078 | 47 | +/- 0.023 |
| SiO ₂ | % | 4.55 | 0.059 | 49 | +/- 0.017 |
| Al ₂ O ₃ | % | 2.216 | 0.034 | 50 | +/- 0.01 |
| TiO ₂ | % | 0.1064 | 0.0049 | 49 | +/- 0.0014 |
| Mn | % | 0.0709 | 0.004 | 49 | +/- 0.0012 |
| CaO | % | 0.0255 | 0.0051 | 50 | +/- 0.0015 |
| P | % | 0.06267 | 0.00092 | 47 | +/- 0.00027 |
| S | % | 0.0199 | 0.0024 | 50 | +/- 0.0007 |
| MgO | % | 0.0571 | 0.0095 | 46 | +/- 0.0028 |
| K ₂ O | % | 0.0127 | 0.0027 | 44 | +/- 0.0008 |
| Zn | % | 0.0015 | | | |
| Pb | % | 0.0032 | | | |
| Cu | % | 0.0026 | 0.0014 | 35 | +/- 0.0005 |
| Ba | % | 0.0056 | | | |
| V | % | 0.0019 | | | |
| Cr | % | 0.0033 | 0.0012 | 34 | +/- 0.0004 |
| Cl | % | 0.0082 | 0.0035 | 40 | +/- 0.0011 |
| As | % | 0.0014 | | | |
| Ni | % | 0.0047 | | | |
| Co | % | 0.00091 | | | |
| Sn | % | 0.0021 | | | |
| Sr | % | 0.0022 | | | |
| Zr | % | 0.0035 | | | |
| Na | % | 0.02 | | | |
| LOI ₄₂₅ | % | 2.062 | 0.068 | 38 | +/- 0.023 |
| LOI ₆₅₀ | % | 2.681 | 0.037 | 39 | +/- 0.012 |
| LOI | % | 2.929 | 0.046 | 47 | +/- 0.014 |

Control Statistic Details

Control values for this material were determined during a certification program.

Certification Date

This material was certified with the above values on:

1/09/2010

Source Material

Prior to homogenisation and testing, this material was sourced from
 Pilbara

Usage

10A Marsh Close, O'Connor
Western Australia 6163
Phone +618 93142566 Fax +618 93143699
Email info@geostats.com.au
Website <http://www.geostats.com.au>



This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

This certified reference material was dried in an oven for a minimum of 8 hours at 105°C. The dry material was pulverised in a "puck and bowl" and then homogenised in a vee-blender. The material is then packaged into 10g plastic packets, ready for shipment.

Certification Testwork

This certified reference material was tested in a dedicated certification program. 10 samples were sent to 5 laboratories for XRF analyses. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.