

Certified Pulp Iron Ore Reference Material - GIOP-70

Certificate of Analysis

| Analyte | Units | Average | Standard Deviation | Count | 95% Confidence Interval |
|--------------------------------|-------|---------|--------------------|-------|-------------------------|
| Fe | % | 59.62 | 0.16 | 48 | +/- 0.05 |
| Fe (Calc) | % | 59.665 | 0.061 | 46 | +/- 0.018 |
| SiO ₂ | % | 4.311 | 0.037 | 45 | +/- 0.011 |
| Al ₂ O ₃ | % | 1.741 | 0.018 | 45 | +/- 0.006 |
| TiO ₂ | % | 0.0588 | 0.0075 | 50 | +/- 0.0021 |
| Mn | % | 0.1706 | 0.0087 | 50 | +/- 0.0025 |
| CaO | % | 0.0834 | 0.0063 | 50 | +/- 0.0018 |
| P | % | 0.0413 | 0.0014 | 50 | +/- 0.0004 |
| S | % | 0.0225 | 0.0012 | 50 | +/- 0.0003 |
| MgO | % | 0.071 | 0.013 | 50 | +/- 0.004 |
| K ₂ O | % | 0.0104 | 0.0014 | 39 | +/- 0.0005 |
| Zn | % | 0.0041 | | | |
| Cu | % | 0.0036 | | | |
| Ba | % | 0.0043 | | | |
| V | % | 0.0018 | | | |
| Cr | % | 0.0027 | | | |
| Cl | % | 0.0081 | 0.0045 | 36 | +/- 0.0015 |
| As | % | 0.003 | | | |
| Ni | % | 0.0029 | | | |
| Co | % | 0.0029 | | | |
| Sn | % | 0.004 | | | |
| Sr | % | 0.0025 | | | |
| Zr | % | 0.0064 | | | |
| Na | % | 0.0139 | 0.0065 | 32 | +/- 0.0024 |
| LOI ₄₂₅ | % | 7.322 | 0.047 | 47 | +/- 0.014 |
| LOI ₆₅₀ | % | 7.853 | 0.039 | 48 | +/- 0.011 |
| LOI | % | 8.069 | 0.047 | 49 | +/- 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:

1/12/2010

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>

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| <p>GEOSTATS PTY LTD</p> <p>Mining Industry Consultants Reference Material Manufacture and Sales</p> |
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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.