

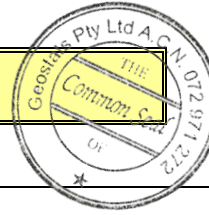
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Coarse Iron Ore Reference Material

GIOC-12

Certified Control Values



GIOC-12

Iron Ore Analyses

| Element | Units | Grade | Standard Deviation | No of Analyses | 95% Confidence Interval |
|--------------------------------|-------|-------|--------------------|----------------|-------------------------|
| Fe | % | 58.59 | 0.08 | 47 | +/- 0.03 |
| Fe (Calc) | % | 58.60 | 0.05 | 46 | +/- 0.02 |
| SiO ₂ | % | 3.90 | 0.03 | 44 | +/- 0.01 |
| Al ₂ O ₃ | % | 1.94 | 0.03 | 48 | +/- 0.01 |
| TiO ₂ | % | 0.170 | 0.004 | 48 | +/- 0.002 |
| Mn | % | 0.113 | 0.004 | 50 | +/- 0.002 |
| CaO | % | 0.037 | 0.005 | 50 | +/- 0.002 |
| P | % | 0.054 | 0.001 | 47 | +/- 0.001 |
| S | % | 0.031 | 0.001 | 47 | +/- 0.001 |
| MgO | % | 0.089 | 0.007 | 48 | +/- 0.002 |
| K ₂ O | % | 0.020 | 0.001 | 49 | +/- 0.001 |
| Zn | % | 0.002 | | | Indicative Only |
| Pb | % | 0.003 | | | Indicative Only |
| Cu | % | 0.004 | | | Indicative Only |
| Ba | % | 0.004 | | | Indicative Only |
| V | % | 0.007 | 0.001 | 39 | +/- 0.001 |
| Cr | % | 0.007 | 0.002 | 50 | +/- 0.001 |
| Cl | % | 0.005 | 0.002 | 30 | +/- 0.001 |
| As | % | 0.011 | 0.001 | 47 | +/- 0.001 |
| Ni | % | 0.005 | 0.002 | 36 | +/- 0.001 |
| Co | % | 0.005 | | | Indicative Only |
| Sn | % | 0.001 | | | Indicative Only |
| Sr | % | 0.002 | | | Indicative Only |
| Zr | % | 0.004 | | | Indicative Only |
| Na | % | 0.015 | 0.007 | 39 | +/- 0.003 |
| LOI140 | % | 0.24 | 0.055 | 50 | +/- 0.02 |
| LOI371 | % | 8.66 | 0.053 | 50 | +/- 0.02 |
| LOI425 | % | 8.90 | 0.049 | 50 | +/- 0.02 |
| LOI650 | % | 9.43 | 0.05 | 50 | +/- 0.02 |
| LOI1000 | % | 9.70 | 0.05 | 49 | +/- 0.02 |

CRM Details

Control Statistic Details

Control values for this material were determined during a certification program. LOI results are based on drying at 105°C.

Certification Date

This material was certified with the above values on:
8th September 2015

Source Material

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

Material Type

Coarse Iron Ore, 2kg samples.

Usage

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

Preparation and Packaging

This standard was dried in an oven to remove excess moisture. The dry material was crushed and screened to attain a 100% <4mm product. The crushed material was homogenised in a drum blender and rotary split into ~2kg

Assay Testwork

This standard was tested in a dedicated certification program. 50 random samples were pulverised and then 10 x 10g pulp sub-samples were sent to 5 laboratories for analyses. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards.

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