

USING THE GBIX CALCULATOR

About

The GBIX CALCULATOR is a simple tool that provides an **indicative price** for typical grade and mineralogy of **Guinean bauxites**, CIF Shandong (US\$/dmt). The coefficients in the calculator are updated weekly so the results reflect the market at the time.

The Calculator is **not suitable for** estimating the price of **any other bauxite**.

Note that calculated prices are **indicative** only and cannot be relied on as a price guarantee. For more accurate price estimates, please contact the thebauxiteindex.com via the link below.

info@thebauxiteindex.com

How to Use the Calculator

Al₂O₃ Input (%)

The alumina input should be the **Low Temperature Available Alumina*** (on a dry, oxide equivalent, basis). (*per laboratory tests at approximately 145°C)

SiO₂ Input (%)

The silica input should be the **Low Temperature Reactive Silica*** (on a dry, oxide equivalent, basis). (*per laboratory tests at approximately 145°C)

H₂O Input (%)

The H₂O % input has little impact on the CIF price. The moisture content of the bauxite mostly affects freight rates, so its impact is greater on FOB prices. The Chinese market currently accepts a wide range of moisture contents, although typical moisture levels would not exceed 15%.

Typical Guinean bauxites (not kiln dried) have an average moisture content over a calendar year of approximately 10% - thus 10% is the recommended default unless you are confident your bauxite will have a different value.

Organics Input

Total Organic Content (TOC), meaning organic matter, detracts from bauxite prices because of its cumulative and deleterious effect on process liquor during Bayer processing.

Bauxites from South America typically contain low organics, Guinean bauxites contain medium organics and others, such as those from Australia, can contain high or very high organics. Nominating the level of TOC in a bauxite assigns a price penalty in the Calculator consistent with current market penalties.

For the now the calculator is tuned for typical Guinean bauxites, the "Organics" input should be left as "Medium".

Other Impurities

Other impurities such as phosphorous, titanium, sulphur, and high levels of goethite can also influence the price a bauxite will fetch. While the market is sensitive these impurities their impact in any given refining process is less predictable and cannot, at this stage, be included in any generic indicative pricing calculation.