

USING THE GBIX(CBIX) CALCULATOR

About

The GBIX (CBIX) CALCULATOR is a simple tool that provides an indicative price for typical grade and mineralogy 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.

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How to Use the Calculator

Al₂O₃ Input (%)

The alumina input should be Total Alumina (on a dry, oxide equivalent, basis).

SiO₂ Input (%)

The silica input should be the Total Silica (on a dry, oxide equivalent, basis).

H₂O Input (%)

The H₂O % input has little impact on the CFR 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 (not kiln dried) Guinean bauxites have an average moisture content of approximately 10% which is the recommended default.

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 moderate 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 now the calculator is tuned for Guinean bauxites and the "Organics" input should be left as "Low"

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.