

White Tabular Alumina

Description: Tabular alumina is a dense, high-purity aggregate with high bulk density, low water absorption and low apparent porosity. It provides excellent volume stability after high-temperature firing while lowering water and binder demand in castables and shaped refractories. Low impurity content improves corrosion resistance across different atmospheres; regular particle shape with few flaky grains improves castable flowability. Good thermal-shock stability reduces damage caused by operating-temperature fluctuations. Suitable for porous-plug bricks and cores, slide gates, continuous-casting refractories and working linings of large medium-frequency induction furnaces, it improves volume stability, thermal-shock and corrosion resistance, helping extend service life and reduce consumption.

Chemical Composition (%)

Parameter	Aggregate Req.	Aggregate Typical	Fine Req.	Fine Typical
Al ₂ O ₃	≥ 99.5	99.52	≥ 99.3	99.5
SiO ₂	≤ 0.09	0.02	≤ 0.15	0.05
Na ₂ O	≤ 0.4	0.36	≤ 0.4	0.38
Magnetic iron	≤ 0.02	0.005	≤ 0.02	0.015

Physical Properties

Parameter	Aggregate Req.	Aggregate Typical	Fine Req.	Fine Typical
Bulk density (g/cm ³)	≥ 3.50	3.60	—	—
Apparent porosity (%)	≤ 5.0	2.5	—	—
Water absorption (%)	≤ 1.5	0.70	—	—

Product Information

Size	6–3–1–0 / 1–0.5 / 0.5–0 / 0.6–0.2 / 0.2–0 mm; fines on request.
Packing	In 1.00 MT, 1.25 MT or 1.35 MT bulk bags; 25/50 kg bags in bulk bags or on wrapped pallets.
Origin	Shandong Province, China.