

Product Name	Washed China Clay (Kaolin)	Product Code	BO-KAO-W300
Grade	Premium Ceramic Grade	HSN Code	2507.00.20
Origin	Gujarat, India	Loading Port	Mundra Port, India

1. PRODUCT DESCRIPTION

BO-KAO-W300 is a high-purity, levigated (water-washed) China Clay powder meticulously processed from the premium, natural kaolinite reserves of Gujarat, India. Characterized by its exceptionally low iron oxide content and optical alumina-to-silica ratio, this grade provides excellent plasticity, superb structural green strength, and outstanding fired whiteness. It is extensively utilized as a primary raw material in the global manufacturing of high-end ceramic tiles, tableware, sanitaryware, and electrical insulators.

2. KEY TECHNICAL ADVANTAGES

- Ultra-Low Iron Contamination (< 0.65% Fe₂O₃):** Minimizes the risk of firing defects, spotting, or unwanted yellow tint under high-temperature vitrification.
- Superb Particle Fineness:** Thoroughly washed to eliminate abrasive free silica grit, ensuring a uniform 300 mesh profile.
- High Mechanical Strength:** High aluminum oxide content gives unmatched structural toughness and excellent molding performance.

3. CHEMICAL COMPOSITION (TYPICAL XRF ANALYSIS)

**Tested under standard laboratory conditions via X-Ray Fluorescence.*

Chemical Compound	Formula	Typical Value (%)
Silica	SiO ₂	48.21 %
Alumina	Al ₂ O ₃	35.39 %
Iron Oxide	Fe ₂ O ₃	0.62 % (Ultra-Low)
Titanium Dioxide	TiO ₂	0.92 %
Calcium Oxide	CaO	0.48 %
Magnesium Oxide	MgO	0.21 %
Potassium Oxide	K ₂ O	0.19 %
Sodium Oxide	Na ₂ O	0.27 %
Loss on Ignition (LOI)	-	13.47 %

4. PHYSICAL & FIRING PROPERTIES

Property Parameter	Observed Test Value
Sieve Residue (on 300 Mesh / 53 Microns)	0.08% Maximum (99.92% Passing)
Raw Whiteness / Brightness	78.91%
Fired M.O.R. (Modulus of Rupture at 1205°C - 1220°C)	77.4 kg/cm ²
Water Absorption	19.76%
Water of Plasticity	36.8%

Property Parameter	Observed Test Value
Linear Firing Shrinkage	6.28%
Total Dissolved Solids (T.D.S.)	300 ppm

5. STANDARD EXPORT PACKAGING & LOGISTICS

- **Jumbo Bag Shipping:** 1.0 to 1.25 Metric Ton (MT) UV-stabilized woven PP Jumbo Bags with internal moisture-proof liners. Completely palletized, strapped, and securely shrink-wrapped.
- **Standard Retail Loading:** 50 Kg double-layered HDPE/PP bags loaded securely inside containers.
- **Container Payload Capacity:** Approximately 25 to 27 MT per 20-foot Full Container Load (FCL).
- **Strategic Transit Advantage:** Rapid transport from regional processing zones in Gujarat directly to Mundra Port ensures prompt international shipping schedules, minimal handling, and highly cost-competitive ocean freights.

Commercial & Samples Inquiries:

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Disclaimer: The technical specifications and chemical matrix indicated in this data sheet represent typical values obtained from official laboratory tests conducted at Morbi, Gujarat. They are intended solely as general performance guidelines. International importers are strongly advised to request physical technical testing samples (1-2 Kg available upon request) to evaluate material compatibility with their localized production formulations prior to commercial-scale commitments.