

SPECIFICATION

Product Name: Heavy kaolin
Chemical Formula: $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$
CAS Number: 1332-58-7
Molecular Weight: 258.16 g/mol
Appearance: White to off-white or creamish white fine powder.
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Whiteness	%	94.50	92 - 96
Average Particle Size	μm	5.25	5 - 6
Surface Area	Sqm/gm	8.15	8 - 10
Bulk Density	Gm/cc	0.44	0.38 - 0.45
Water Absorption	%	43	38 - 44
PH	-	6.35	5.5 - 6.5
Moisture	%	0.20	0.40
Loss on Ignition	%	6.25	<6.5
Residue on 500 Mesh	%	0.88	<1.0

Physical Properties

- Solubility: Practically insoluble in water. Insoluble in alcohol.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place. Protect from moisture and contamination. Keep container or bags tightly closed. Avoid direct sunlight and excessive humidity.

Applications

- Use: Used in antacid and anti-diarrheal formulations. Used in face packs, powders, soaps, and creams. Used in porcelain, tiles, sanitary ware, and pottery production. Functions as a filler and extender to improve smoothness and opacity. Used as a reinforcing and filler material. Improves paper brightness, smoothness, and printability. Used in pesticide formulations and crop protection products. Used as an inert carrier and processing aid in various formulations.
- Dosage: Depends on Product formulation, Purity and particle size, Regulatory requirements, Desired performance characteristics.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner and 100 gram or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.