

KAOLIN- CERAMIC INDUSTRY GRADE

Kaolin is an essential ingredient in ceramics, porcelain and tableware. Its light, brightness and toughness are the perfect characteristics for these goods.

Kaolin is commonly used in the ceramic industry, where its strong melting temperature and white burning properties render it especially desirable for the manufacture of ceramics, porcelain, tableware and refractories. For the manufacturing of white products, kaolin is typically combined with other minerals. Such components are required to obtain the proper properties of plasticity, shrinkage, vitrification, etc., for the shaping and firing of the products.

Kaolin is commonly used on its own in the manufacturing of refractories.

Key Properties

GMCI offers a variety of kaolin materials designed for both conventional and pressure casting applications.

Two of the core assets are as follows:

- Highly controlled rheological properties
- Highly controlled casting rate and deflocculant demand
- Good dry strength
- Excellent particle packing and associated good factory yields
- Outstanding whiteness

GRADE: – 82 Physical Properties

Parameter	Specifications
Appearance	White
Moisture	1.00% max
Residue 300 BSS Mesh by wet sieving	0.50% max
Water of Plasticity	32 – 35 ml/100gm
pH @10% solid concentration	6 – 8
Brightness (ISO)	83 % (+/- 1%)
Bulk Density	265 – 275 gm/ltr
Yellow Index	3.5 – 4.5
Oil Absorption	32 – 37 gm/ltr
Specific Gravity	2.6

Chemical Properties

Parameter	Specifications
SiO ₂	44.00 – 45.00%
Al ₂ O ₃	36.50 – 37.50%
Fe ₂ O ₃	00.15 – 00.35%
TiO ₂	00.15 – 00.25%
CaO + MgO	00.05 – 00.25%
Na ₂ O + K ₂ O	00.15 – 00.25%
L.O.I	13 – 14%

Admin office: 110 A Block City Center, Nr Idgah Circle Asarwa Bridge, Asarwa, Ahmedabad Gujarat 380 016 INDIA

Plant: Plot No. 410 Phase II, Vatva G. I. D. C. Industrial Estate, Vatva, Ahmedabad Gujarat 382 445 INDIA

E: inquiry@gmcltd.com **W:** www.gmcltd.com **T:** +91 79905 25617 **F:** +91 79848 07644

Certificate of Incorporation: U24290GJ2019PTC108256 GST NO.: 24AAHCG8288L1ZY

GLOBAL METRO CHEM INDUSTRIES

GRADE: – WHITE Physical Parameters

Parameter	Specifications
Appearance	White Lumps
Moisture	5.00% max
Residue 300 BSS Mesh by wet sieving	1.00% max
Water of Plasticity	28 – 30 ml/100gm
pH @10% solid concentration	7.5 – 8.5
Brightness (ISO)	80 % (+/- 1%)
Total Shrinkage (1105oC ½ hour soak)	11.50% max
Fired Brightness – L* Value (1150oC)	90 – 92%

Chemical Properties

Parameter	Specifications
SiO ₂	46.00 – 47.00%
Al ₂ O ₃	36.50 – 37.50%
Fe ₂ O ₃	00.30 – 00.38%
TiO ₂	00.90 – 01.10%
CaO + MgO	00.25 – 00.35%
Na ₂ O + K ₂ O	00.10 – 00.15%
L.O.I	13.25 – 13.75%

PACKING: As per requirement*

ORIGIN: INDIA

* Note: Specification & Chemical analysis can be furnished only when we get to know the grades / application desired by you.

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