British Bangla Chemical Limited



Precipitated Calcium Carbonate ($CaCO_3$)

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ABOUT US

British Bangla Chemical Ltd. is the premier producer of market-leading precipitated calcium carbonate (PCC) and active lime in Bangladesh. Our premium PCC is produced using the purest form of higher-grade lime, which can be applied across high-value industries such as; pharmaceuticals, agrochemicals, cosmetics, oil and drilling, plastic compounds and much more. We use globally recognized, modern equipment and state of the art technology to produce our high-quality PCC in our certified plant; based in Moulvibazar, Bangladesh. Our company values quality in both our product and relationships with end-customers; where we aim to provide matches services and support to our customer network, such that you can get the best out of our premium product. This approach, combined with highly competitive prices and effective supply chain management for the timely delivery of PCC products, makes us the market leading chemical manufacturers in Bangladesh. Backed by a team of qualified and devoted team of senior chemical engineers, with over 100-man years of expertise in PCC manufacturing, we are pioneers in Bangladesh's PCC industry. Our final products are fully accredited, whereby we follow international and national standards for manufacturing; and have obtained the necessary certifications to demonstrate the effectiveness of our product.

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OUR BUSINESS PHILOSOPHY

BBCL is 100% committed to supplying only the highest-quality products, manufactured using consistent processes that match international best-practice standards, and therefore meet our customers' expert requirements and expectation.

WHY TRUST US?

We have a leading position in the chemical industry because of:

- ❑ Our experienced manpower
- ❑ Quality assured products
- ❑ Reasonable pricing
- ❑ Good royalties & regularities
- ❑ Customer-oriented approach

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Our Products
Precipitated Calcium Carbonate.
Quick Lime.

ABOUT OUR QUALITY OF P. CALCIUM CARBONATE

Precipitated Calcium Carbonate (PCC) also known as purified, refined, or synthetic calcium carbonate is an exceptional & broad scope of application in various industries. We offer high-quality calcium carbonate powder, it's Vibrating sieving screen Mesh: 300. which has a higher percentage of Calcium Carbonate ($CaCO_3$) which ultimately means lower impurities like Silica & Iron particles in our product. Our product has high brightness, whiteness, and controlled particle size to ensure high dispersion & opacity in the final products of our customers. We also offer our clients Surface Treated (uncoated) Calcium Carbonate. It has impeccable effectiveness and longer shelf life.

QUALITY ASSURANCE

By strictly manufacturing to the highest quality standards and passing various quality tests from the very initial stage of processing to final packaging, we have always been able to offer the clients pure quality products. To fulfilling our customer's satisfaction, we emphasize & fuller assurance of 100% quality product. we have modern laboratory & quality control specialists who personally checks the various quality parameters. It's smooth surface finish, easy processing, and excellent dimensional stability. Manufacturing of the products is done in compliance with the industry set norms and guidelines, utilizing the finest ingredients and modern machines.

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TESTING FACILITIES

Our unit is equipped with in house testing facilities for batch-to- batch testing, where we have the following testing facilities -

- Electronic analytical balance.
- Gloss reflectometer for whiteness testing
- Ph testing.
- Complete chemical analysis, CaCo3, MgCo3 & SiO2
- Muffle furnace up to 1150° C.
- Laboratory Oven.
- Hegman index for general particle size testing
- Specific Gravity apparatus.
- Bulk Density apparatus.
- Sieve shaker for dry/wet sieve analysis.
- Whiteness reflector testing.
- Liquid limit apparatus.
- Specific Gravity apparatus.



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CHEMICAL PROPERTIES ANALYSIS DATA OF ALL GRADES OF BBCL PCC.

We manufacture Precipitated Calcium Carbonate using the purest form of higher-grade lime stone procured from the top regions in the world.

Parameter	Max/Min/gm/µm/mm/℃
Colour	Bright White
CaCO3, % by Weight	98.50%
Lead as pb	Negligible
Copper as Cu	Nil
Arsenic as AS	Nil
Sulphate as So4	0.18% Max
Silica as SiO2	0.05%
Iron as Fe	0.02%
Matter insoluble in HCL	Clear
pH	8.52%
Chloride as Cl	Traces
Magnesium as MgO	0.40%
Flouride as F	0.05%
Sp. Gravity	2.6
Solution in Hydrochloric Acid 5N	Clear
Soluble Alkai (as Na2O)	0.15%
Loss on Drying at 105° C ± 5° C	0.5-0.8%
Phosphate as PO4	o.5%

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EXAMPLE: GRADE RECOMMENDED FOR TOOTHPASTE

Precipitated calcium carbonates (PCC) is found in usual purpose toothpastes, special purpose dentifrices, and several other oral care goods. PCC works like a moderate-to-mild abrasive, as a thickener, a less expensive filler, and bodying agent when used high or smaller or external area PCCs. Since calcium carbonate is unsolvable in water, it could only be utilized in impervious products and not in clear gels. The abrasivity of a mineral atom rest on two features- its basic hardness and particle size of the mineral. Within a provided mineral sort, the minor a particle, the lesser quantity of abrasive it will become; the greater, the extra abrasive. CaCO3 utilized in numerous toothpastes vary from 0.7 to 10 microns along with the grade selected moderately depending on the mark of abrasiveness anticipated for the product. PCC with 0.7micron sized particle is the mildest and effective abrasive. The small particles thicken the toothpastes and prevents the cost of expensive thickeners. With particle size from 2 to 4 microns it functions as moderate thickening agent.

SPECIFICATION

Parameter	Max/Min/gm/µm/mm/℃
Purity as CaCO3	98.5 (%)
PH (20% slurry)	8.5 - 9.5
Loss on drying	0.5
Bulk density	0.75 to 0.85
Acid Insuable	(1%) = Clear
Flow point	(ml/15gms) = 13.5
Heavy metal as Pb	0.002 (%)
Sedimentation (ml/g)	1.7 - 2.1
Arsenic (%)	0.0003
Lead (%)	0.0003
Silica SIO2	0.02%
Fe2O3	0.02%
Whiteness	98
Fineness (though 325 mesh)	0.1(%)
Total aerobic count (cuf/g)	100
Oil Absorption	G/100g =15 ~ 30
Particle Size	D50

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TECHNICAL SPECIFICATION

Parameter	(As per STD)
Total Fungal counts (Aerobic)	<500 CFU/gm
Total Bacterial Counts (Aerobic)	<500 CFU/gm
Gram negative Bacilli	Negative to tests
Staphylococcus Aureus	Negative to tests

QUICK LIME SPECIFICATION

Parameter	Max/Min/gm/µm/mm/°C
Lime % Cao	92-94
Lime Lumps (mm)	30 To 60
Lime Reactivity Value	10 To 100
Lime % Loi	0 To 2.5%
Lime Reactivity temperature	94 C



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APPLICATIONS

Calcium Carbonate is the most utilised filler in the following industries. We produce PCC in different forms to suit the needs of each industry; and classify as available in different fineness.

- *Animal feed*
- *Paper*
- *Rubber*
- *Cosmetic*
- *Paints*
- *Soaps & Detergent*
- *Food grade*
- *Pharmaceuticals*
- *Toothpaste*
- *Ink*
- *PVC*
- *Water Purification*

PACKAGING: 20Kg, 25 Kg & 1 metric ton Bags. As per client requirement.

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Our Customers





























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CONTACT US

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