



**KUNAL CALCIUM LIMITED**

[www.calcium.co.in](http://www.calcium.co.in)

# DIVERGENT APPLICATIONS DISTINCT ADVANTAGE





# ABOUT US

Established in 1997, Kunal Calcium Limited began as a Private Limited company specializing in the manufacture of Precipitated Calcium Carbonate (PCC) for diverse industrial applications. Recognizing the product's potential, the company invested consistently in technology upgradation, capacity expansion, and product development—scaling from an initial 10,000 MTPA to 50,000 MTPA within a decade.

In 2006, Kunal Calcium Limited achieved a significant milestone by becoming a public limited company. Today, it ranks among the largest PCC manufacturers with a production capacity of 72,000 MTPA and is certified with ISO 9001, ISO 14001, ISO 45001, FSSC 22000, GMP, FSSAI, WHO –GMO, and Halal, along with a Drug Manufacturing License.

The company operates state-of-the-art manufacturing facilities equipped with stainless-steel machinery, advanced in-house analytical and microbiology laboratories, and global compliance standards. In 2017, Kunal Calcium Limited expanded into Ground Calcium Carbonate (GCC), commissioning India's first large-scale roller mill setup and significantly enhancing combined PCC and GCC capacity—reinforcing its leadership in quality, scale, and innovation.

## OUR VISION & MISSION

To lead the industry through consistent, zero-defect quality and continuous innovation in products, processes, and people—while upholding integrity, trust, and commitment to remain the most preferred partner across global markets.







## QUALITY CONTROL



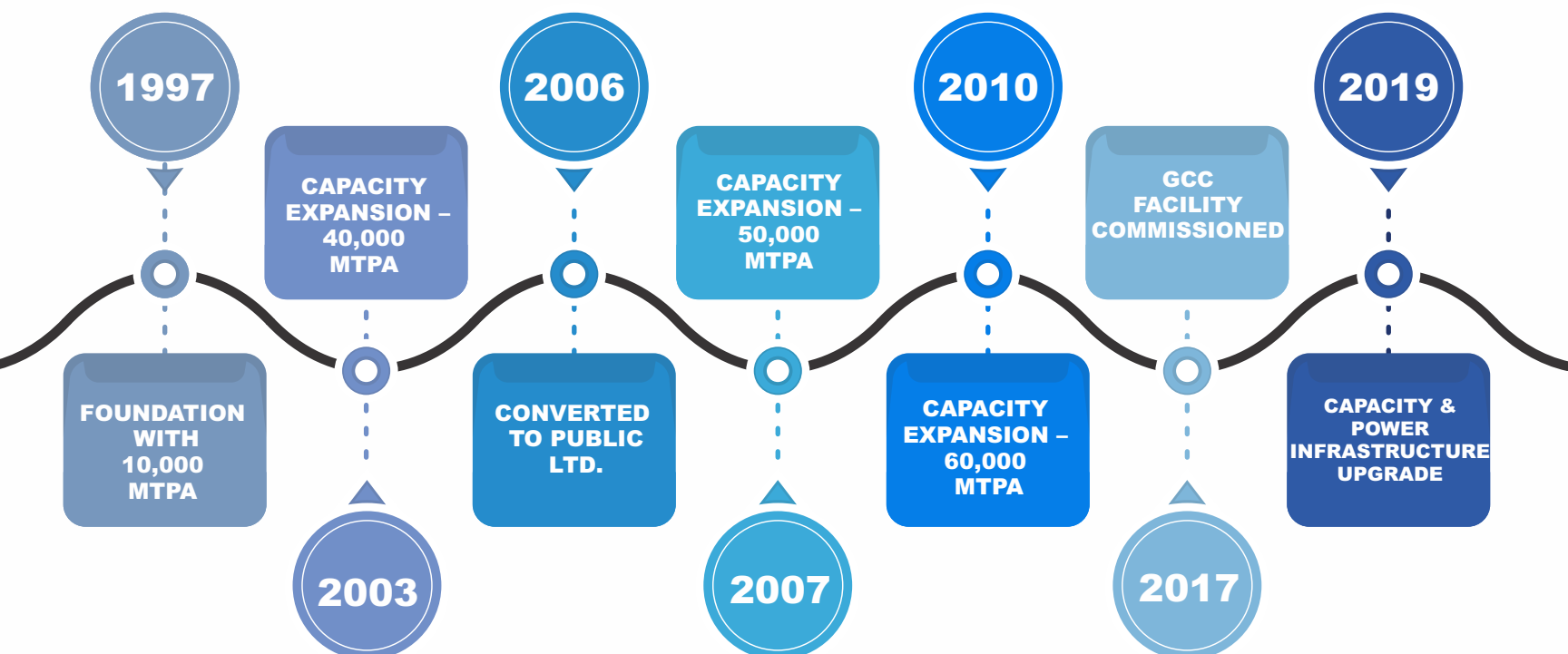
Quality at Kunal Calcium Limited begins at the source. Rigorous testing at the raw material stage ensures consistent high-grade limestone, supported by efficient logistics for reliable supply and competitive pricing. Advanced in-house laboratories and continuous R&D enable the development of precise, application-specific calcium carbonate grades that meet stringent industry standards.

## MICROBIOLOGY LABORATORY

Kunal Calcium Limited operates a certified, state-of-the-art in-house Microbiology Laboratory, ensuring stringent microbial control and consistent product quality. Equipped with international-standard instruments, the facility supports compliance with global quality requirements for pharmaceutical, food, oral care, and allied applications



## JOURNEY



# PRECIPITATED CALCIUM CARBONATE



Kunal Calcium is the leading manufacturer of various high-quality Precipitated Calcium Carbonate (PCC) for the last 25 years. KCL is known for continuous development with time as they keep track by regular follow-up as per market demands. KCL products are well-known in the market due to their best quality.

TYPICAL CHEMICAL PROPERTIES	VALUE
Calcium Carbonate as CaCO <sub>3</sub> (Min)	98.5%
Color	Bright White
Specific Gravity	2.65 – 2.75
Solution in 5N HCL	Clear
Soluble Alkali as Na <sub>2</sub> O	0.15%
Ph	9.3 – 10.3
Loss on Drying (at 105 c)	0.5 – 1.0
Iron As Fe	0.02%
Maganese (as MN) max	0.003%
Lead (as Pb) max	5 ppm
Copper (as Cu)	Negligible
Arsenic (as As)	Less than 3 ppm
Chloride (as Cl)	Traces
Floride (as F)	Traces
Phosphate (as PO <sub>4</sub> ) max	0.10%
Sulphate (as SO <sub>4</sub> ) max	0.30%
Silica (as SiO <sub>2</sub> ) max	0.05%
Matter insoluble in 5N HCL	0.5%
Magnesium Oxide (as MgO) max	0.5%

## TECHNICAL SPECIFICATION OF ALL GRADES OF PRECIPITATED CALCIUM CARBONATE(PCC)

PRECIPITATED CALCIUM CARBONATE								
Properties	KC-1 SUPER	KC-1	KC-2	KC-3	KC-4	KC-5	KC-11	KC-E1
Bulik Desity gm/ml (Tapped)	0.36 – 0.39	0.45 – 0.50	0.46 – 0.51	0.74 – 0.83	0.68 – 0.80	0.70 – 0.85	0.45 – 0.50	0.48 – 0.52
Loss on Drying (105°C in 1 hr)	1.0 Max	1.0 Max	1.0 Max	0.5 Max	0.5 Max	0.5 Max	1.0 Max	1.0 Max
Specific Surface Diameter(micron)	0.3	0.33	0.11	0.45	0.4	1.4	0.11	0.38
Average Particle Size D50	4 – 5	5 – 6	5 – 7	6 – 8	5.5 – 6.5	7 – 9	4 – 6	4 – 6
Flow Point (ml/15 gm)	29 – 32	23 – 26	24 – 27	12 – 15	14 – 18	12 – 16	25 – 28	22 – 24
Fineness%(through 45 micron)	99.4	99.4	99.7	99.5	99.5	99.7	99.7	99.7
DOP Absorption (gm/100gm)	55 – 65	55 – 60	60 – 75	26 – 32	30 – 36	24 – 32	65 – 80	50 – 60
Purity as CaCO <sub>3</sub> % (min)	96.5	96	98	98	98	98	98	97
Crystalline Habit	Aragonite	Aragonite	Semi – Calcite	Calcite	Calcite	Aragonite	Calcite	Aragonite

# GROUND CALCIUM CARBONATE (GCC)



Kunal Calcium Limited manufactures and exports high-quality. Ground Calcium Carbonate (GCC) from high-purity calcite limestone, delivering consistent performance. GCC is widely used as an industrial filler across applications.

## FEATURES OF GROUND CALCIUM CARBONATE (GCC):-

- High Brightness & Stability
- Controlled Particle Size & Surface Area
- Weather & Performance Resistance
- Low Oil Absorption Easy
- Processing & Formulation

Typical Chemical Properties	Value
Calcium Carbonate as $\text{CaCO}_3$	96 – 99.5
Color	White
Whiteness	96% $\pm$ 1%
Mean Particle Size Range	1.5 – 5 Microns
Bulk Density (gm/cc)	0.9 – 1.35
Magnesium Oxide as MgO	0.4 – 1.0
Silica as $\text{SiO}_2$	0.3 – 0.8
Iron as Fe	< 0.02%
Alumina as $\text{Al}_2\text{O}_3$	0.1 – 0.3
Loss on Drying	0.2 Max
Chloride	Traces
Loss on Ignition (Solid / Solid %)	43 – 44

## ACTIVATED CALCIUM CARBONATE

Kunal Calcium Limited offers high-purity Activated Calcium Carbonate, surface-treated to enhance dispersion, water resistance, and performance, making it ideal for polymer and industrial applications in Indian and global markets.

### FEATURES:-

- Highly effective
- Precisely formulated
- Accurate composition

Properties	Unit	Value
Whiteness	%	95 – 97
Average Particle Size	D50	2 – 3.5 Microns
PH (1% Aqueous Solution)	-	9 – 10
Bulk Density	Gm/cc	0.75 – 1.0
Silica ( $\text{SiO}_2$ )	%	Max 0.5
Water Proofing	%	95
Coating (Stearic Acid)	%	1 – 1.75
$\text{CaCO}_3$	%	96 – 97

# TECHNICAL SPECIFICATION OF GCC



Properties	E				
	10	12	15	20	25
Bulk Density (gm/ml) (Tapped)	0.88 – 0.93	0.95 – 1	1 – 1.05	1.08 – 1.14	1.21 – 1.30
Whiteness	98%	98%	98%	98%	98%
Assay	99.32%	99.32%	99.32%	99.32%	99.32%
Loss on Drying (105°C in 1 hr)	0.2 Max	0.2 Max	0.2 Max	0.2 Max	0.2 Max
Mean Particle Size (D50)	2.6	3.5	4.5	5.5	6.5
Top Cut (D97)	10	12	15	20	25

Properties	S				
	10	12	15	20	25
Bulk Density (gm/ml) (Tapped)	0.88 – 0.93	0.95 – 1	1 – 1.05	1.08 – 1.14	1.21 – 1.30
Whiteness	98%	98%	98%	98%	98%
Assay	92%	92%	92%	92%	92%
Loss on Drying (105°C in 1 hr)	0.2 Max	0.2 Max	0.2 Max	0.2 Max	0.2 Max
Mean Particle Size (D50)	2.6	3.5	4.5	5.5	6.5
Top Cut (D97)	10	12	15	20	25

KC-7	
Properties	VALUE
Bulk Density (gm/ml) (Tapped)	1.0 - 1.17
Whiteness	96% Min.
Assay	98.5% Min.
Loss on Drying(105°C in 1 hr)	0.2 Max
Average Mean Particle Size (D50)	3.5 - 5.5
Top Cut (D97)	12

Properties	ACTIVATED CALCIUM CARBONATE	
	505C	555C
Bulk Density (gm/ml) (Tapped)	0.75 – 1.00	0.75 – 0.87
Whiteness	95 – 96	95 – 96
Assay	95 – 97	98.5 – 99
Coating	1 – 1.75	1 – 1.75
Water Proofing	95%	95%



# APPLICATIONS



## DENTIFRICE

RECOMMENDED GRADES

**PCC:- KC-5**

**GCC:- KC-7**



## FOOD

RECOMMENDED GRADES

**PCC:- KC-2, KC-5**

**& KC-11**

**GCC:- KC-7**



## PVC PIPE

RECOMMENDED GRADES

**PCC:- KC-3, KC-4**

**GCC:- 15E & 20E**



## PVC COMPOUNDING

RECOMMENDED GRADES

**PCC:- KC-2 & KC-11**



## PAPER

RECOMMENDED GRADES

**PCC:- KC-2 & KC-11**



## PHARMACEUTICAL

RECOMMENDED GRADES

**PCC:- KC-5 & KC-11**



## RUBBER & FOOTWEAR

RECOMMENDED GRADES

**PCC:- KC-1, KC-1**

**Super, KC-E1, KC-111**

**ACC:- 505C**



## PAINT

RECOMMENDED GRADES

**PCC:- KC-1, KC-11**

**ACC:- 505C & 15ST**



## COSMETICS

RECOMMENDED GRADES

**PCC:- KC-5**

**ACC:- 555C**



## INK

RECOMMENDED GRADES

**PCC:- KC-1 & KC-11**



## ADHESIVES & SEALANTS

RECOMMENDED GRADES

**PCC:- KC-3 & KC-4**



## EVA SHEET

RECOMMENDED GRADES

**PCC:- KC-E1**

**ACC:- 505C**



**INQUIRY :-** [kunalcalcium1997@gmail.com](mailto:kunalcalcium1997@gmail.com)

**JOB :-** [hr@calcium.co.in](mailto:hr@calcium.co.in)

**Tel. :-** +91 1732222796

**Mob. :-** +91 9896391205



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[www.calcium.co.in](http://www.calcium.co.in)

**REGISTERED OFFICE:**

**KUNAL CALCIUM LIMITED**

SCO :- 17F-20F, D.A.V Market, Opposite  
Madhu Hotel, Yamuna Nagar -135001.Haryana

CIN: U14107HR1997PLC033655

**MANUFACTURING UNIT:**

**KUNAL CALCIUM LIMITED**

Village Shahpur, Opp. VitaMilk Plant, Jagadhri  
Road, Bilaspur 135102. Distt. Yamuna Nagar. Haryana