

DIVERGENT APPLICATIONS

DISTINCT ADVANTAGE





ABOUT US



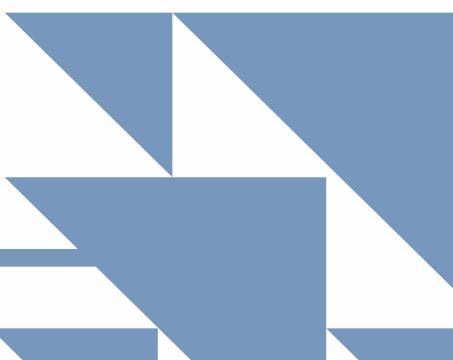
Established in 1997, Kunal Calcium Limited began as a Private Limited company specializing in the manufacture of Precipitated Calcium Carbonate (PCC) for diverse industrial applications. Recognizing the product's potential, the company invested consistently in technology upgradation, capacity expansion, 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.

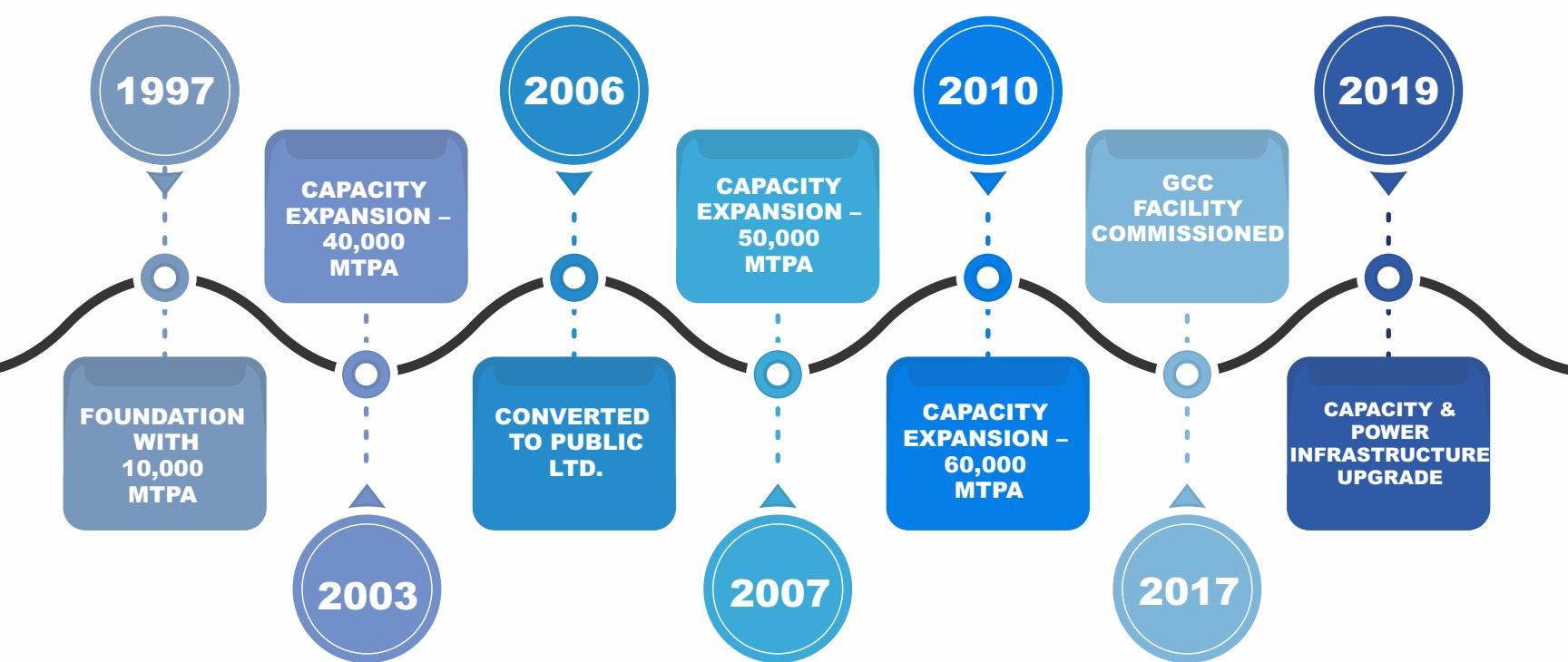


MICROBIOLOGY LABORATORY

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 ₃ (Min)		98.5%
Color		Bright White
Specific Gravity		2.65 – 2.75
Solution in 5N HCL		Clear
Soluble Alkali as Na ₂ O		0.15%
Ph		9.3 – 10.3
Loss on Drying (at 105 °C)		0.5 – 1.0
Iron As Fe		0.02%
Manganese (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
Fluoride (as F)		Traces
Phosphate (as PO ₄) max		0.10%
Sulphate (as SO ₄) max		0.30%
Silica (as SiO ₂) 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
Bulk Density 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 ₃ % (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 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 SiO_2	0.3 – 0.8
Iron as Fe	< 0.02%
Alumina as Al_2O_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 (SiO_2)	%	Max 0.5
Water Proofing	%	95
Coating (Stearic Acid)	%	1 – 1.75
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

ACTIVATED CALCIUM CARBONATE		
Properties	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



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