

# LIME

CHEMICALS LIMITED

**Consistency** *is the only* **promise** *we keep,*



**Quality** *is the only* **philosophy** *we follow...*



Over 3 decades  
of manufacturing excellence in Calcium Carbonate



## The Company

Lime Chemicals Limited was established in the year 1970 as a private limited company. The core manufacturing competency of the company is the manufacture of "Precipitated and Coated Calcium Carbonate". Two very basic ingredients used across various industries. Realising the potential of this product, the promoters of the company H I Dawoodani,

R H Meghani and A H Dawoodani decided to invest in a huge expansion process. Upgradation of technology & continuous product development helped the company meet critical standards of the end use industry. This automatically led to improved processes, world class practices and recognised quality benchmarks, enabling the company to achieve excellence.



### ANNUAL TURNOVER

55 Crores

### PRODUCTION CAPACITY

72,000 MT Per Annum

### EXPANSION PLANNED

1,00,000 MT Per Annum

As the process and production capacities grew, the company gathered enough strength to consolidate its position in the Indian market. And it began to drive the market and lead from the forefront. The first major milestone in the history of Lime Chemicals was in 1986, when the company turned public.

Lime Chemical is led by strong & motivated professional team with rich experience in the calcium carbonate industry. The professional attitude has not only earned the consumer confidence, but also set the company on the path of adopting the most professional business practices, whether it be marketing, distribution, accounting, logistics, Q.C. or Research & Development.



### OUR MISSION

"In Search of Constant Innovation to improve and enhance customer satisfaction"

### OUR STRATEGIC INTENT

"To be the Most Preferred Supplier & also the Undisputed leader's in Calcium Carbonate industry".

Ahmed Dawoodani,  
Managing Director

The results began to show early. In less than 10 years, Lime Chemicals Limited became the largest supplier of Calcium Carbonate to Oral Care Industry and is today a major vendor to Colgate Group & other dentifrice manufacturers. Recently the company's unit in Roha achieved another milestone, when it received the ISO 9001:2000 Certification.

## Acquiring to Expand

In 1987, keeping with the group's overall strategy to expand, Lime Chemicals Limited acquired Thirani Chemicals Limited located at Poanta Sahib - Himachal Pradesh. Not only did this merger lead to increased production capacity but also made possible the coverage of greater geographical area.



This was achieved due to the fact that both the plants were located in diverse areas of the country, leading to a more effective and well networked distribution system. The merger also helped the company to strengthen its existing portfolio of brands with 'Limcal' and 'Dical'. Two trade names which have become synonymous as the quality standard for a range of coated as well as uncoated Calcium Carbonate available in the market.



Poanta Sahib Factory

## Our Global Frontiers



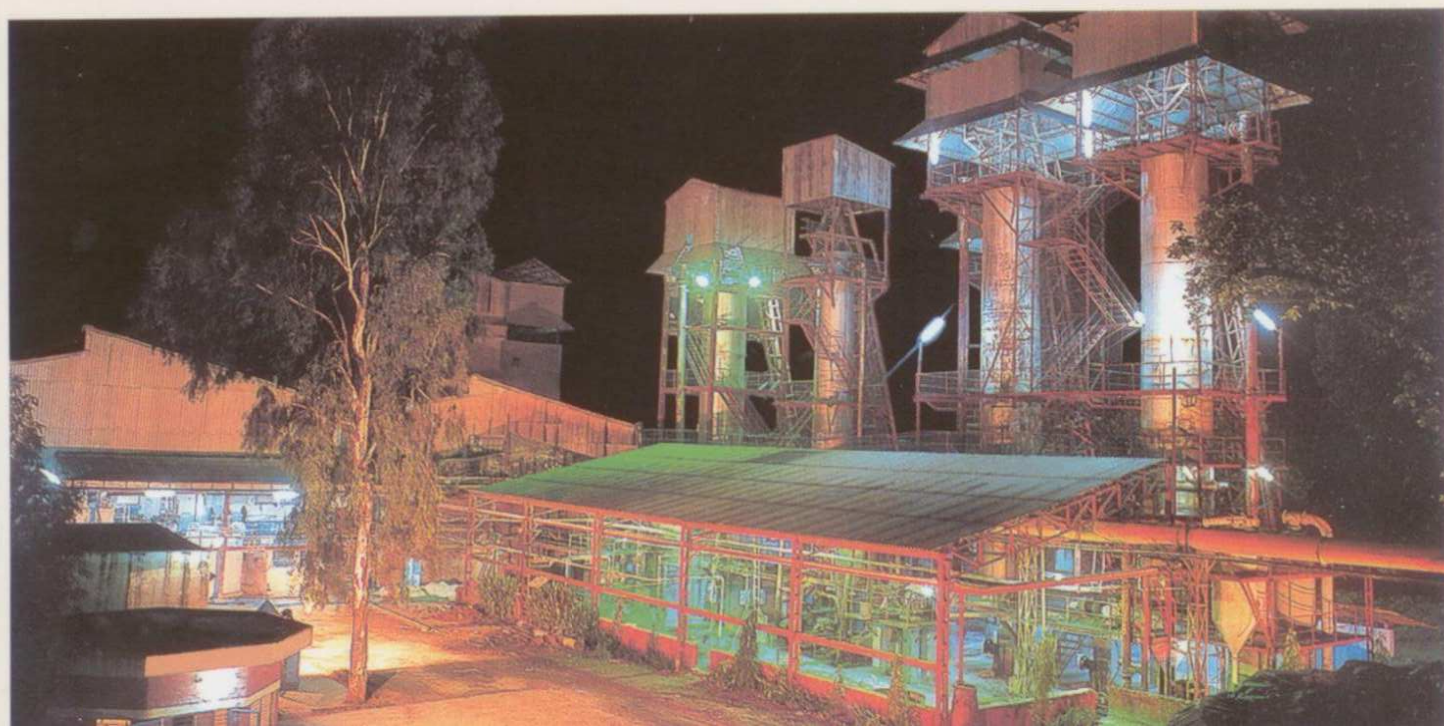
While the company is already exporting to markets as diverse as South & Middle East Asia, Indian Subcontinent & Africa. Lime Chemicals Limited looks forward to capture additional market globally. With dedicated professionalism and stringent quality practices, Lime Chemicals Limited is all set to become a global player in the manufacture of Calcium Carbonate.

## Benchmark Quality



"Consistency is the only promise we keep, quality is the only philosophy we follow." In order to improve and sustain the consistency of the product, it is important to deliver quality. The advanced microbiology labs with sophisticated plant and machinery help Lime Chemicals maintain and meet consistent quality standards. The grades of Calcium Carbonate

produced for Dentifrice, Pharma & Food industry conform to IP specification while, the micro lab ensures that the product is free of bacteria. This also is in consonance with the most stringent parameter and specification, stipulated by MNC's and major pharma companies. Most importantly it helps Lime Chemicals deliver benchmark quality. The professional team of Lime Chemicals ensure that the GMP is strictly followed in totality at all its plants and this has been the hallmark of the company in setting high standards for the industry to follow.





## LIME'S PRODUCT SPECIFICATIONS

### CHEMICAL ANALYSIS OF PRECIPITATED & COATED GRADES OF CALCIUM CARBONATE

COLOUR	WHITE
SOLUTION IN 5 N HCl	CLEAR
SOLUBLE ALKALI AS $\text{Na}_2\text{O}$	0.15% Max.
pH	9.0-10.5
IRON(Fe) Max.	0.02%
MANGANESE (Mn) Max.	0.005%
FLUORIDE (F) Max.	TRACES
PHOSPHATE( $\text{PO}_4$ ) Max.	0.08%
SULPHATE ( $\text{SO}_4$ ) Max.	0.2%
SILICA ( $\text{SiO}_2$ )	0.07%
ALUMINIUM IRON PHOSPHATE & MATTER INSOLUBLE IN HCl IS-918/1985	0.5%
MAGNESIA ( $\text{MgO}$ )	0.5%
COPPER (Cu)	NEGLECTIBLE
LEAD (Pb)	LESS THAN 10 ppm
ARSENIC (As)	LESS THAN 2 ppm
CHLORIDES (Cl)	TRACES
CALCIUM CARBONATE CONTENT	98.6% Min.
SPECIFIC GRAVITY	2.7
LOSS ON DRYING AT 105 C	.5 - .8%
HUNTER WHITENESS	97% Min.

### TYPICAL PROPERTIES OF PRECIPITATED GRADES OF CALCIUM CARBONATE

Grade	Dentrifuge Grades			TC-104	TC-106	TC-202
	LIMCAL-H	LIMCAL-L	LIMCAL-M			
Bulk Density (gm/ml)	.55-.65	.70-.80	.85-1.0	.3-.4	.65-.85	.45-.53
Flow Point (ml/15gm)	18-20	12-18	10-14	24-28	12-24	-
Particle Size (Median dia in micron)	8.0	10.0	12.0	5.2	8-12	5
Specific Surface Diameter from Surface Area ( $\mu\text{M}$ )	.29	.39	.45	.26	.30-.45	.11
Surface Area by Nitrogen Absorption ( $\text{M}^2/\text{g}$ )	4.70	2.0	1.35	6.5	1.5-4	18-22
DOP Absorption (gm/100gm) Paste form	-	-	-	-	50-60	60-75
Fineness % (through 45 micron Min.)	99.7	99.7	99.7	99.7	99.0	99.7
Viscosity (cps)	-	1000-7000	-	-	-	Clear
Brightness (Hunter)	100	100	100	98-100	98-100	98-100

### TYPICAL MICROBIOLOGICAL STANDARDS OF DENTIFRICE AND PHARMA GRADES

Parameters	Value
Total Bacterial Counts (Aerobic)	< 100 CFU / gm.
Total Fungal Counts (Aerobic)	< 500 CFU / gm.
Gram positive spore Forming Bacilli	< 500 CFU / gm.
Staphylococcus aureus	Negative to test
Gram Negative Bacilli	Negative to test
These parameters can be met on specific/tailor made requirements from the customer.	

### TYPICAL PROPERTIES OF COATED GRADES OF CALCIUM CARBONATE

Grade	DICAL-S	TC-302	TC-303	DICAL-C
Apparent Density (gm/ml)	.50 to .75	.50 to .75	.50 to .75	.55 to .60
Surface Area by Nitrogen Absorption ( $\text{M}^2/\text{g}$ )	18-21	18-21	12-15	12-16
Specific Surface Diameter from Surface Area (micron)	0.12	0.12	0.12	0.16
DOP Absorption (gm/100gm) Paste form	35-60	35-60	35-60	40-50
Coating (in percentage)	≈ 3% Stearate	≈ 1.5% Stearate	≈ 1.0% Stearate	≈ 1% Titanate (Min.)
Water Proofing %	98	98	95	98
Fineness (Through 45 micron sieve Min.)	99.7	99.7	99.7	99.7
Brightness (Hunter)	95-100	95-100	85-95	95-100





We are proud of our clients.  
In many ways, they hold a mirror to  
our achievements... for our firm commitment to quality,  
consistency and professionalism. Across a broad spectrum of  
industries and businesses, we have a multitude of clients. Clients  
who are established leaders in their businesses. An association  
which has imbibed in us a rare sense of perfection and an  
extraordinary zeal to deliver, within the most stringent standards,  
to pursue and become a total quality company, producing total  
quality products.

#### **OUR CLIENTS**



**Asian Paints**  
**Anchor Group**  
**Ajanta India Ltd.**  
**Balsara Hygiene Products Ltd.**  
**Bata India Ltd.**  
**Coates of India Ltd.**  
**Colgate Palmolive Group**  
**Dabur India Ltd.**  
**Emami**  
**Enkay Rubber**  
**Finolex Group**  
**Glaxo SmithKlein Beecham Ltd.**  
**Hindustan Ciba-Geigy Ltd.**  
**Henkel-Spic**  
**Jain Irrigation Systems Ltd.**  
**KLJ Group**  
**Lakhani**  
**Lever Group**  
**Lupin Labs**  
**Reckitt & Benkiser**  
**Ranbaxy**  
**Sintex**  
**Shriram Polytec**  
**TTK Saralee**  
**Universal Cables**

TECH OFFICE





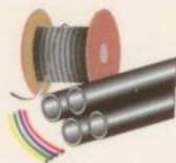
## Plastic Industry

Used as a filler in rigid & plasticized PVC. It further improves impact strength and facilitates smooth extrusion of plastic.

Recommended : Dical S / TC-302, TC-303 LIMCAL-H

Usage in Cable compounds/Cables improves gloss, tensile strength, elongation and other physical properties.

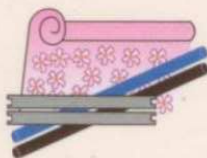
Recommended : Dical S / TC-302, TC-202.



## Filler in Leather Cloth/Sheeting

Usage in PVC Cables, PVC Compounding, PVC Rigid and Conduit Pipes, PVC Green Hose Pipes, PVC Capping, Irrigation Accessories, Shoe Compounding, PVC Films, PVC Floorings, Wall Paper/PVC Sheeting.

Recommended : Dical S, Dical C.



## Rubber Industry

Reinforcing filler in natural and synthetic rubber for Tyre/Tube applications as well as slippers, shoes, straps to improve strength as well as whiteness, while reducing total costs.

Recommended : Dical S / TC-302.

Usage in Rubber also extends to Auto parts, rubber accessories, V-Belts etc.

Recommended : TC-104, TC-302 / Dical S.



## Paint Industry

Used extensively as an extender and as a pacifying agent in emulsion paints.

Recommended : TC-202.

Polishing agents in window and mirror cleansers and polishes.

Recommended : Dical S.



## Printing Ink Industry

Used as an extender in printing inks to control strength & body of ink.

Recommended : TC-202 / Dical-S.



## Food & Beverages

Chewing gum and powder drinks.

Recommended : TC-104 / TC-106.



Note:

These are only recommended grades from Calcium Carbonate for various applications. It's advisable to consult specifically for exact grade and dosage which may vary within an industry.

## Paper Industry

Used across a wide spectrum of applications to enhance the brightness, smoothness, opacity and ink receptiveness. Control of burning rate in cigarettes.

Recommended : TC-202 / TC-104.



## Pharmaceutical Industry

Usage applications include neutralisation and filtration aid in antibiotic manufacture, as a calcium source, as an antacid, and as a bulking agent in making tablets.

Recommended : TC-104 / TC-106 / Limcal-L / M.



## Cosmetic Industry

Used extensively in powders to increase fluffiness and control absorption. Also used in depilatory creams and in face powders as perfume carrier.

Recommended : TC-302 / TC-104.



## Dentifrices

An essential ingredient in powder and paste as a cleaning and polishing agent used for its abrasion property in toothpowder / toothpaste.

Recommended : Limcal-L / Limcal M / H.



## Animal Food

Used as necessary calcium supplement as well as a part of staple diets of cattle. Calcium carbonate is also used as a major ingredient in cattle feed.

Recommended : TC-104 / LIMCAL-L.



## Sealants and Mastics

In PVC plastisols as rheology modifiers for car under body, applications on polyurethane, polysulphide and silicon. Also used as sealants for construction and insulation glass applications.

Recommended : Dical S / Dical-C / TC-302.



## LIME CHEMICALS LIMITED

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