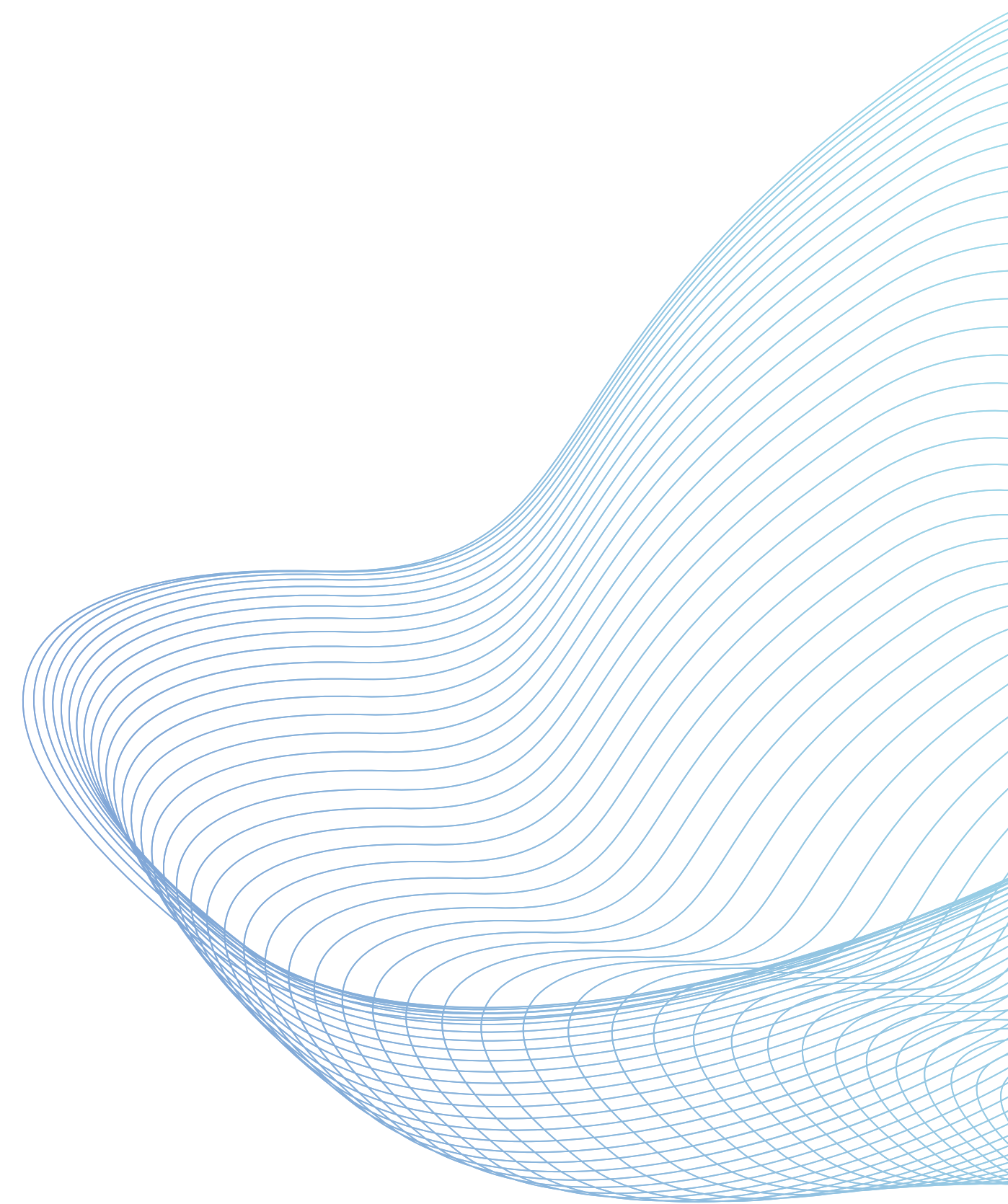




ChemilexTM Industries

UNMATCHED EXPERIENCE AND VISION

AN ISO 9001 : 2015 CERTIFIED CO.



www.chemilex.com

ABOUT COMPANY

Chemilex Industries is a leading lime product manufacturer located in Jodhpur, Rajasthan, India, dedicated to providing high-quality lime-based solutions to a wide range of industries. Since our inception in 2015, we have been committed to innovation, sustainability, and customer satisfaction.



OUR PRODUCTS

Our lime products are crafted to meet the highest standards of quality and performance. Our product range includes:

Hydrated Lime

**Quicklime
(Calcium Oxide)**

Quick Lime Powder

Limestone

Limestone Powder

HYDRATED LIME

Hydrated lime, also known as slaked lime or calcium hydroxide ($\text{Ca}(\text{OH})_2$), is a versatile chemical compound with a range of applications across various industries. It is produced through a chemical reaction called slaking, which involves mixing quicklime (calcium oxide, CaO) with water. The resulting hydrated lime is a fine white powder that possesses both alkaline and alkaline-earth properties. Here are some of its common uses and the production process:

Production Process: The production of hydrated lime involves the following steps:

1. **Calcination:** Limestone (calcium carbonate, CaCO_3) is heated in a kiln to produce quicklime (calcium oxide, CaO) and carbon dioxide (CO_2).
2. **Slaking:** Quicklime is then mixed with a controlled amount of water in a process called slaking or hydration. This reaction produces calcium hydroxide (hydrated lime) and a substantial amount of heat.
3. **Processing:** The resulting hydrated lime is carefully processed to remove impurities and achieve the desired particle size distribution. This involves grinding and sieving the product.

USES OF HYDRATED LIME

- Water Treatment
- Soil Stabilization
- Flue Gas Desulfurization
- Construction
- Chemical Manufacturing
- Food Industry
- Paper Industry
- Leather Industry
- pH Adjustment
- Sugar Refining
- Medical and Dental

QUICK LIME

Quicklime, also known as burnt lime or calcium oxide (CaO), is a widely used chemical compound with a variety of applications across industries. It is obtained through the thermal decomposition of limestone or seashells, a process known as calcination. Quicklime has numerous uses due to its chemical properties and reactivity, making it a valuable material in various fields.

Production Process: The production of quicklime involves the calcination of limestone or other calcium carbonate-rich materials. The process occurs in a lime kiln, where the material is heated to high temperatures (around 900 to 1200°C) in the presence of oxygen. This thermal decomposition releases carbon dioxide gas, leaving behind quicklime as the end product:



The quicklime produced can be further processed and hydrated to produce slaked lime (calcium hydroxide), which has additional applications.

USES OF QUICK LIME

- Construction and Civil Engineering
- Steel Manufacturing
- Chemical Industry
- Water Treatment
- Waste Treatment
- Agriculture
- Paper Industry
- Medical and Dental Applications
- Mining and Metallurgy

QUICK LIME SPECIFICATION

Calcium Oxide	CaO	85% to 90%	80% - 85%
Calcium Carbonate	CaCO ₃	3%	5%
Magnesium Oxide	MgO	1%	1%
Acid Insoluble	SiO ₂	3%	5%
Mesh	(BSS)	Lumps	Lumps
Alumina	Al ₂ O ₃	0.1%	0.1%
Iron	Fe ₂ O ₃	0.1%	0.1%
Chloride	Cl	Traces	Traces

QUICK LIME POWDER SPECIFICATION

Specification	Powder
CaO (%)	85% - 90%
MgO %	5%
Sio2	1.48%
Co2 (Oven basis)	3.3%
Lime as CaO	86.2
Packing	PP/HDPE/Jumbo Bag

QUICK LIME POWDER ANALYSIS REPORT

In Minutes	Temperature in Degree
0	20.04 C
5	33.40 C
10	41.50 C
15	49.50 C
20	54.50 C
25	56.06 C
30	58.11 C

LIME STONE

Limestone is a sedimentary rock primarily composed of calcium carbonate, often formed from the remains of marine organisms like shells and coral.

Limestone is a versatile and widely used natural resource that finds applications in various industries and everyday life. Its unique properties make it valuable for construction, manufacturing, agriculture, and more. The production process of limestone involves extraction, processing, and utilization in diverse ways.

USES OF LIMESTONE

- Construction
- Cement Production
- Aggregate
- Road Base
- Soil Conditioner
- Industrial Applications
- Water Treatment
- Top of Form

LIME STONE SPECIFICATION

Specifications

% CaCO₃

% MgCO₃

% Silica

% Fe₂O₃

% Others

Size

Packing

Grade

92 - 95%

2.50 (max.)

1.50 (max.)

0.2 (max.)

0.6

0 - 6 mm/ 6 -25 mm/
10 -30 mm/ 25 -50 mm/ 40 -80
mm

Loose

LIME STONE POWDER SPECIFICATIONS

Available lime as CaCO ₃ (in%)	98	95	90	80	75	70	65
Acid Insoluble(Max %)	0.6	1	1.5	3	4	4.5	6
Fe ₂ O ₃	100 PPM	In Traces	In Traces	In Traces	In Traces	In Traces	In Traces
MgCO ₃ (Magnesia) (Max%)	1	2	5	5.25	5.5	5	8
(SiO ₂) (Max)	0.5%	1%	1%	1.5%	1.5%	1.5%	1.5%
Size	20 to 300 mesh	20 to 300 mesh	20 to 300 mesh	20 to 300 mesh	20 to 300 mesh	20 to 300 mesh	20 to 300 mesh

QUALITY ASSURANCE

At ChemilEx Industries, we are committed to delivering the highest quality lime products to our customers. Our Quality Assurance (QA) practices are designed to ensure that every product leaving our manufacturing facility meets or exceeds the strictest quality standards. We take pride in our reputation as a reliable supplier of premium limestone and are dedicated to upholding this reputation through meticulous QA processes.



- Raw Material Selection
- Stringent Testing
- Skilled Workforce
- Quality Control Measures
- Continuous Improvement
- Customer Feedback
- Quality Certifications
- Product Performance

VISION

At ChemilEx Industries, our vision is to be the leading global provider of innovative and sustainable lime products, setting the standard for excellence in quality, environmental responsibility, and customer satisfaction. We envision a world where the versatility and value of lime are fully harnessed to enhance industries, communities, and the environment."

Quality Excellence

Innovation

Global Reach

Environmental Stewardship

Customer-Centric Approach

Community Engagement

Employee Empowerment

OUR VALUED PARTNER

At Chemilex Industries, we take immense pride in our commitment to delivering high-quality lime products to a diverse range of industries. Our clients are not just customers; they are our partners in progress, relying on our expertise and products to meet their specific needs and achieve their goals. With a legacy of excellence and innovation, we are delighted to introduce you to some of the remarkable clients we've had the privilege to serve.

- **Atul Ltd. (Valsad Gujarat.)**
- **Ashok Alco-Chem Ltd.- (Maharashtra)**
- **Aerocon Buildwell Pvt Ltd.- (Madhya Pradesh)**
- **Ascolite- (Gujarat)**
- **Bodal chemicals Ltd (Rajpura-Punjab)**
- **Bharat Rasayan Ltd.- (Haryana)**
- **Birla Copper.- (Bharuch)**
- **Shree Pushkar Chemical And Fertilizers Ltd (Maharashtra)**
- **Nandesari Industrial Association.- (Nandesari)**
- **Patel Pesticides (INDIA) Pvt Ltd.-(Nandesari)**
- **Ramdev Chemicals Ltd.- (Ankleshwar)**
- **Reva Proteins Ltd.- (Jhagadia)**
- **Rohan Dyes & Intermediates Ltd.- (Ahmadabad)**

OUR VALUED PARTNER

- **Brixa Industries Ltd.- (Ahmedabad)**
- **Biltech Building Elements Ltd.- (Maharashtra)**
- **Biltech Building Elements Ltd.- (Kolkata)**
- **Concrelite AACBlocks.- (Madhya Pradesh)**
- **Chemplast Associate Ltd.- (Nandesari)**
- **Chemi Organics Chemicals India Pvt Ltd.- (Bharuch)**
- **Deepak Phenolics Limited.(Dahej)**
- **Dubar India Limited (Katni)**
- **Dlite Blocks Pvt Ltd.- (Maharashtra)**
- **Greenlight AAC Blocks.- (Godhra)**
- **India Gelatine & Chemicals Ltd.-(Vapi)**
- **India Phosphates LTD- (M.P.)**
- **Jamipol Ltd.-(Jharkhand)**
- **Kanoria Chemicals & Industries Ltd.- (Ankleshwar)**
- **Kamdhenu Nutrients Pvt Ltd.- (Panoli)**
- **Kaizen AAC Blocks.- (Palghar)**
- **Kilburn Chemicals Limited (Dahej)**
- **Shubhalaxmi Poleyesters Ltd.- (Dahej)**
- **Sajjan IndiaLtd.- (Ankleshwar)**
- **Spectrum Dyes & Chemicals Pvt Ltd.- (Surat)**
- **Subhasri Pigments Pvt Ltd.- (Ankleshwar)**

OUR VALUED PARTNER

- **Meghmani Organics Ltd.- (Ankleshwar & Dahej)**
- **National Agro And Steel Ltd -(M.P.)**
- **Narmada Gelatine Ltd.- (MP)**
- **Sunflag Iron And Steel Ltd (Maharashtra)**
- **Sarjan Infracon Pvt Ltd.(Ankleshwar)**
- **Visa Steel Limited-Kalinganagar-(Odisha)**

- **Big Bloc Construction Limited**
- **Gujarat Chemical - Rajkot**
- **Orbix Infratech Pvt Limited - Rajkot**
- **Lite Brick Build LLP - Ahmedabad**
- **Magic Cube Ltd - Balasinor**
- **Infra Block Pvt Ltd - Surat**



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Industries
UNMATCHED EXPERIENCE AND VISION

GALLERY



LET'S CONNECT WITH US!



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