



Calcium Silicate Blocks and Pipes Manufacturing Industry.

Insulation Materials.

Production of Calcium Silicate Pipe & Block Insulation



Introduction

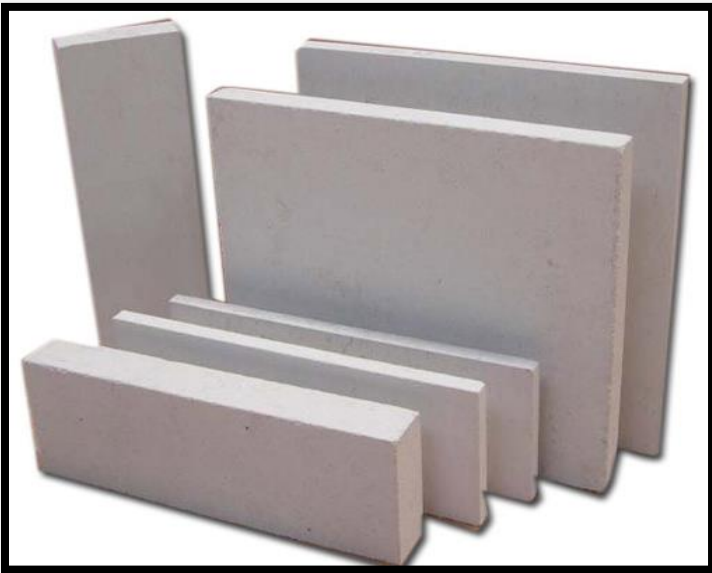
Calcium Silicate

Calcium silicate (Ca_2SiO_4), also known as calcium silicon oxide, is a product derived from limestone and diatomaceous earth, and is used in the pharmaceutical industry as an anticaking agent. Anti-caking agents absorb moisture and allow products to flow freely during the manufacturing process. Calcium silicate is an inorganic substance that can exist in different forms: CaSiO_3 or Ca_2SiO_4 . It is described as a very fine, white or off-white powder with low bulk density and high physical water absorption. It is commonly used as anti-caking agent in food ingredients.



Uses

The calcium silicates have a number of uses in industry. Among the most important applications are their uses in building materials, such as some types of glass and cement (especially Portland cement), bricks and tiles for roofs, fireproof ceilings, and building boards. The compound is also used as a filler in the manufacture of paper and some types of plastics, where it gives body to the final product.



The use of calcium silicate foam for the building sector, especially the internal insulation of walls is relatively new. Based on extensive research, it was proven that, due to the high capillary action and hydrothermal material properties, the foam can be used to improve the moisture protection – especially when energetically renovating old buildings where the outside façade is unsuited for insulation measures. Calcium silicate is used to insulate high-temperature pipes and equipment and for fire endurance applications. It is manufactured and sold in three different forms: preformed block, preformed pipe. Calcium silicate manufactured in North America is noted for its high compressive strength, corrosion-inhibiting properties, and high-temperature structural integrity.

Calcium Silicate Blocks

This is a hard and solid product which is known for its high compressive strength and for does not shrink or crack under high temperatures. Further, these blocks can also be cut according to exact requirement asked by the client and their strength & hardness are a result of the calcium content of this material.



Features of Calcium Silicate Blocks:

- **Lightweight and rigid**
- **Resistant to fire**
- **High mechanical strength**
- **Low specific heat**
- **High durability**
- **Can be reused**



Applications:

- **Cement Industry**
- **Aluminium Industry**
- **Glass Industry**
- **Steel Industry**
- **Power Plants**
- **Fertilizer Industry**
- **Refineries**
- **Ceramic Industry**
- **Ship Building**
- **Chemicals Industry**
- **Sugar Mills**
- **Foundries Rolling Mills**

Indian Calcium silicate blocks find many applications in various industries. These include cement industry, aluminum industry, glass industry, iron and steel industry, power plants, fertilizer industry, petrochemical industry, ship building industry, chemical industry, sugar industry, foundries, rolling mills and other industries where temperatures can go high up to 1000 degrees Centigrade.



Advantages:

- **Reduced fuel cost due to low thermal conductivity and low thermal capacity.**
- **Consistent physio-thermal performance throughout its life.**
- **Reduced heat loss due to fewer joints.**
- **Longer life of 3 to 4 times the fibrous material due to high strength and resistance to vibrations.**
- **Reduced installation cost due to simple fixing.**
- **Zero maintenance for entire life of over 25 years.**
- **Economical as compared to conventional insulation.**
- **Can absorb thermal shocks.**
- **Physio-thermal properties remain unaffected after repeated water wetting & subsequent drying.**

Market Outlook

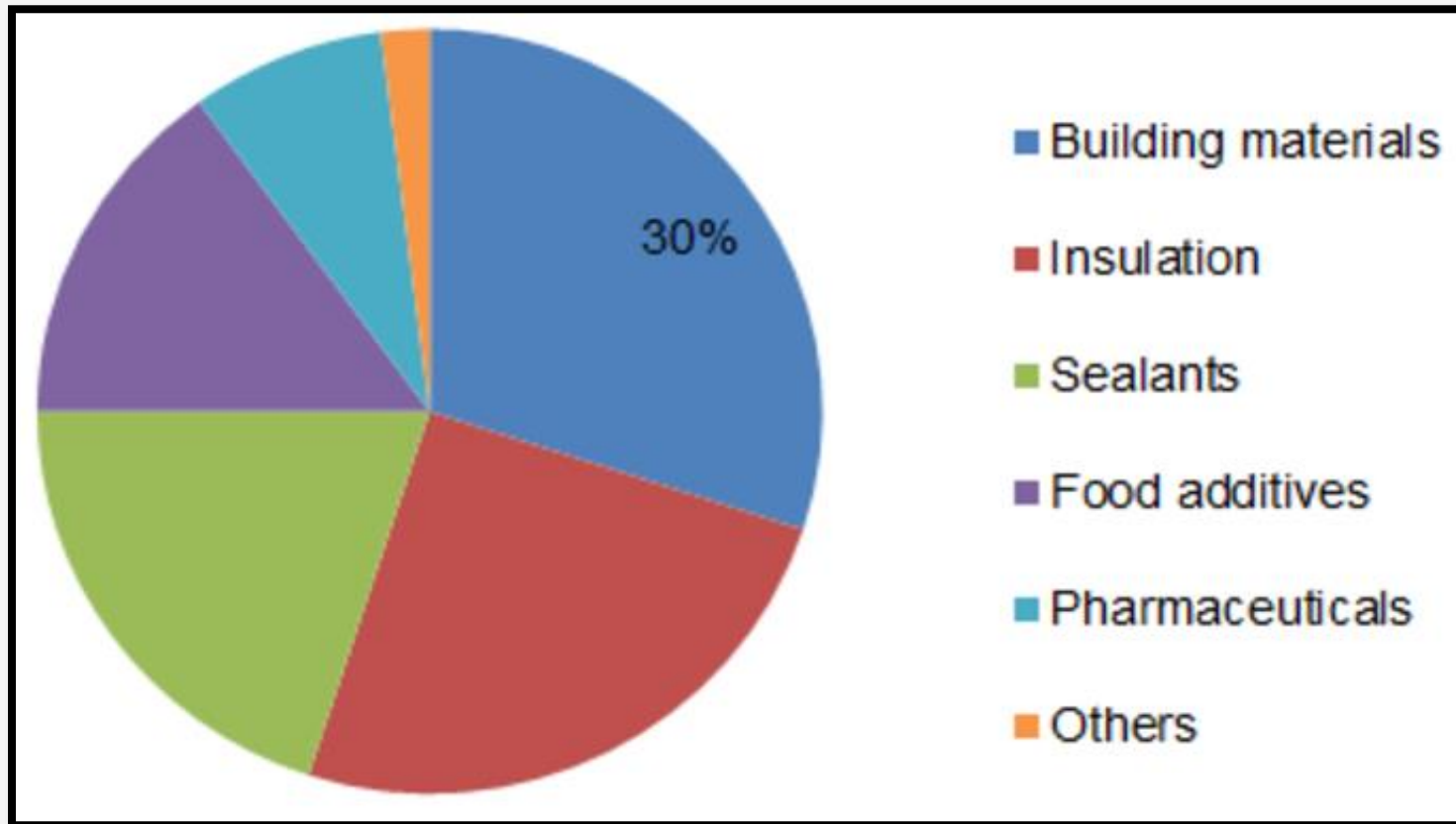
Calcium silicate is used as an anti-caking agent and antacid in the food industry. Demand for high-temperature insulating materials is expected to increase due to industrial development, thus boosting the market for calcium silicate. Growth in the construction sector has bolstered demand for calcium silicate as it is the major end-user of calcium silicate. Global demand for calcium silicate is expected to witness strong growth in the near future, thereby offering significant market opportunities to producers. Increasing demand for calcium silicate has compelled producers to undertake expansion and acquisition of projects to meet global demand. Numerous producers are shifting their plants to countries such as China and India due to various factors such as low raw material and labor costs.

The Calcium Silicate market analysis is provided for the international markets including development trends, competitive landscape analysis, and key regions development status. Development policies and plans are discussed as well as manufacturing processes and cost structures.



Global demand for calcium silicate is expected to witness strong growth in the near future, thereby offering significant market opportunities to producers. Increasing demand for calcium silicate has compelled producers to undertake expansion and acquisition of projects to meet global demand. Numerous producers are shifting their plants to countries such as China and India due to various factors such as low raw material and labor costs. Rapid urbanization and infrastructural development are projected to be key market drivers. This, in turn, would propel demand for calcium silicate in the next few years. Low raw material availability and price volatility are factors likely to affect the market growth. The Asia Pacific is anticipated to be the leading region in the global calcium silicate market due to high demand from the construction sector during the review period.

Global Calcium Silicate Share, by Application (%)



Moreover, the high demand for the product as an insulating material in almost every industry is another factor fuelling the market growth in this region. Moreover, the changing food consumption habits and growth of the food industry in this region is likely to propel the market growth. Availability of raw material and labor in these countries prove advantageous to the market growth. Some of the prominent manufacturers in the global calcium silicate market are American Elements (U.S.), Promat International NV (Belgium), Morgan Advanced Materials (U.K), Prochem, Inc. (U.S.), Spectrum Chemical Manufacturing Corp. (U.S.), Materion Corporation (U.S.), Associated Ceramics & Technology, Inc. (U.S.), Mil-Spec Industries Corporation (New York), Pyrotek (India), Skamol (Denmark), ZIRCAR CERAMICS (India), and Industrial Insulation Group, LLC (U.S.)

Machinery Photographs



Brick Making Machine



Ball Mill



Silo



Autoclave

Project at a Glance

PROJECT AT A GLANCE

(` in lacs)

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	12.50	12.50	Capital	0.00	39.51	39.51
Buildings	0.00	34.70	34.70	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	61.50	61.50	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	4.00	4.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	23.00	23.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	5.00	5.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	118.54	118.54
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Provision for Contingencies	0.00	6.00	6.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	9.35	9.35				
TOTAL	0.00	158.05	158.05	TOTAL	0.00	158.05	158.05

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share		%		No.of Times	%
1-2	4.14	8.47	14.14	24.00	0.00	100.00	4.14	0.00	4.14	1.00	0.00
2-3	7.35	11.12	21.50	18.00	0.00	100.00	7.35	0.00	7.35	1.00	0.00
3-4	10.47	13.76	31.97	12.00	0.00	100.00	10.47	0.00	10.47	1.00	0.00
4-5	13.45	16.32	45.42	6.00	0.00	100.00	13.45	0.00	13.45	1.00	0.00
5-6	16.27	18.78	61.68	0.00	0.00	100.00	16.27	0.00	16.27	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Retur n on Net Worth	Profitability Ratio					Assets Turnov er Ratio	Curre nt Ratio
	Individ ual	Cumulat ive	Overa ll					GPM	PBT	PAT	Net Contri bution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.26	1.26		1.70	1.70	2.18		17.98 %	7.87%	5.90%	178.0 7	64.17 %	1.60	0.91
2-3	1.59	1.42		0.84	0.84	1.20		21.73 %	13.44%	8.97%	207.6 0	64.12 %	1.77	1.29
3-4	1.98	1.59	1.97	0.38	0.38	0.65		24.26 %	17.33%	11.18 %	237.2 6	64.12 %	1.80	1.79
4-5	2.44	1.78		0.13	0.13	0.35		25.97 %	20.06%	12.77 %	266.9 1	64.12 %	1.74	2.39
5-6	2.98	1.97		0.00	0.00	0.18		27.08 %	21.97%	13.90 %	296.5 6	64.12 %	1.63	4.75

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	62.39%
Total BEP (% of Installed Capacity)	65.74%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	25.52%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	5.462

Major Queries/Questions Answered in the Report?

- 1. What is Calcium Silicate Blocks and Pipes Manufacturing industry ?**
- 2. How has the Calcium Silicate Blocks and Pipes Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Calcium Silicate Blocks and Pipes Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Calcium Silicate Blocks and Pipes Manufacturing plant ?**

- 5. What is the structure of the Calcium Silicate Blocks and Pipes Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Calcium Silicate Blocks and Pipes Manufacturing Business?**
- 7. What are the operating costs for setting up Calcium Silicate Blocks and Pipes Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Calcium Silicate Blocks and Pipes Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Calcium Silicate Blocks and Pipes Manufacturing plant ?**
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- 12. What is the Manufacturing Process of Calcium Silicate Blocks and Pipes?**

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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Calcium Silicate Blocks and Pipes.” provides an insight into Calcium Silicate Blocks and Pipes market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Calcium Silicate Blocks and Pipes project. The report assesses the market sizing and growth of the Indian Calcium Silicate Blocks and Pipes Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Calcium Silicate Blocks and Pipes sector in India along with its business prospects. Through this report we have identified Calcium Silicate Blocks and Pipes project as a lucrative investment avenue.

Tags

#Production_of_Calcium_Silicate_Blocks_and_Pipes, #Calcium_Silicate_Block,
#Calcium_Silicate_Blocks_and_Pipes, #Calcium_Silicate_Blocks_Manufacturing_Process,
Calcium Silicate Manufacturing Process, How to Produce a Calcium Silicate, Production
Process of Calcium Silicate, Calcium Silicate Production Process,
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Calcium Silicate Blocks and Pipes Manufacturing Plant, Producing of Calcium Silicate
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Manufacturing Industry.**

Insulation Materials.

**Production of Calcium Silicate Pipe & Block
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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,

Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

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For more information, visit us at:

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