

**Production of Crosslinked Sodium
Carboxymethyl Cellulose.**

Cross-Linked CMC Manufacturing Industry.

**Cross-Linked Sodium Carboxymethyl
Cellulose Manufacturing Project.**

*Croscarmellose Sodium or Modified
Cellulose Gum*



Introduction

Cross-linked sodium carboxymethyl cellulose is also known as croscarmellose sodium or modified cellulose gum. Cross-linked sodium carboxymethyl cellulose is semi synthetic polysaccharide that consists of glucose monomer chains which form a major component of plant cell walls and fibres. Crosslinked sodium carboxymethylcellulose (CMC), croscarmellose, is prepared by the reaction of Na-CMC with acids. Croscarmellose is used as dietary supplements, sweetener tablets, and medicines. The chapter provides nutritional properties of crosslinked sodium CMC.

Cross-linked sodium carboxymethyl cellulose is manufactured by acidifying an aqueous suspension of sodium carboxymethyl cellulose and heating the suspension to achieve cross-linking. The product is then washed and dried. It is also produced during the manufacture of sodium carboxymethyl cellulose by lowering the pH and heating to cause cross-linking. Cross-linked sodium carboxymethyl cellulose is used in tablets of table-top sweeteners and dietary food supplements, as it facilitates disintegration in aqueous solutions, with a maximum level of use of 30 g/kg. It is also widely used as an excipient in pharmaceutical applications.

Uses:

Cross-linked sodium carboxymethyl cellulose is used in tablets of table-top sweeteners and dietary food supplements, as it facilitates disintegration in aqueous solutions, with a maximum level of use of 30 g/kg. It is also widely used as an excipient in pharmaceutical applications.

Cross-linked sodium carboxymethyl cellulose is used in food as an emulsifier to maintain a uniform mixture between two or more unblendable mixtures. A mixture of oil and water. Used in many products including pasteurised products, ice-creams, cheeses, dairy products, batters, baked emulsions and spreads, breakfast cereals, and bakery goods.

Cross-linked CMC hydrogel proves to be an ideal agent for soft tissue augmentation with regard to safety and ease of application. It did not cause infection, extrusion, migration, or adverse reactions in the patients who have been followed for two years. Delayed aesthetic results on facial wrinkles were very satisfactory.

Cross-linked sodium carboxymethyl cellulose was originally developed as a tablet disintegrant for medicinal products and dietary food supplements, allowing dissolution at low use levels (0.25-3.0%). It has an official monograph in the European Pharmacopoeia. In the USA, it is used as a disintegrant in prescription drugs and has generally recognized as safe (GRAS) status for use in dietary supplements.

Market Outlook

The growth of processed food industry, increasing pharmaceutical and cosmetics production, and the growing oil drilling activities are the major factors driving the growth of CMC market. The increasing disposable income in emerging economies such as China, India, Mexico, Africa and South America has led to increasing consumption of processed food. CMC is widely used as binder, thickener, bulking agent, and suspension agent in several food and beverages applications. The segment accounted for a share of 31.0% of the global CMC market, in terms of volume consumed in 2014.

The major factor restraining the CMC market growth is the emergence of substitutes in various applications. Guar gum can substitute in CMC in majority of the applications. The organic/green label associated with guar gum is an added advantage for the product to replace CMC in several applications.

The global carboxymethyl cellulose (CMC) market was estimated at \$1,151.7 Million in 2014 and is projected to register a CAGR of 4.2% between 2015 and 2020.

Carboxymethyl cellulose (CMC) or cellulose gum is a cellulose derivative with carboxymethyl group in its chain. CMC is physiologically inert, chemically stable, odorless and tasteless substance which safe for health and environment. The other properties of CMC include high viscosity, non-toxic nature, and hypoallergenic. Major raw materials used in manufacture of carboxymethyl cellulose (CMC) include plant derived cellulose, caustic soda, and monochloroacetic acid. CMC is widely used as thickener, stabilizer, binder and dispersant in variety of applications such as food and beverages, pharmaceutical and cosmetics, detergents, oil and gas, paper processing and others.

Carboxymethyl cellulose can be defined as an additive used for improving product and processing characteristics in various fields, such as pharmaceuticals and food processing industry. Carboxymethyl cellulose is often used in forms such as sodium salt, sodium carboxymethyl cellulose. Sodium carboxymethyl cellulose is also used as a viscosity modifier or thickener, and to stabilize emulsions in various products including consumer goods and other major end-use industries.

Geographically Asia-Pacific dominated sodium carboxymethyl cellulose market driven in terms of production and consumption driven by higher demand into major end use industry in the region.

Asia-Pacific was followed by North America and Europe as second and third largest market for sodium carboxymethyl cellulose market. Asia Pacific is projected to have fastest growth, owing to rapidly increasing and expanding industrial base leading to higher demand of sodium carboxymethyl cellulose.

Carboxymethyl cellulose is also popular for its excellent water retaining capacity amongst the major end-use industries apart from this other properties which makes sodium carboxymethyl cellulose more popular are resistant to oils, greases, and organic solvents. Sodium carboxymethyl cellulose is synthesized by the reaction of chloroacetic acid with cellulose.

Machinery Photographs



JACKETED MIXER



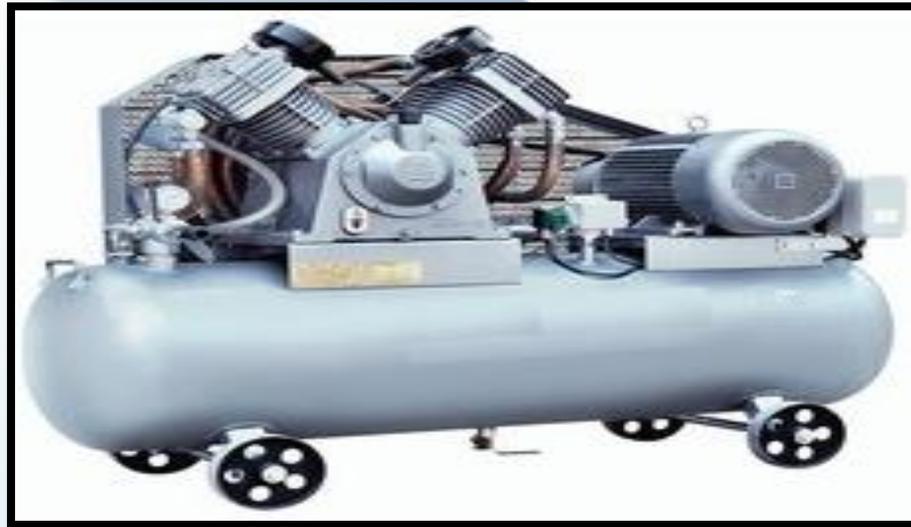
GRINDER



BOILER



PIPELINE AND PUMP



AIR COMPRESSOR

Few Indian Major Players are as under

- **Hexone Pharmaceuticals Ltd.**
- **Hiranya Chemicals Pvt. Ltd.**
- **Maple Biotech Pvt. Ltd.**
- **Perry Impex Ltd.**
- **Rishi Trading Co. Ltd.**
- **Shreejal Info Hubs Ltd.**

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	27.00	27.00	Capital	0.00	36.09	36.09	
Buildings	0.00	33.90	33.90	Share Premium	0.00	0.00	0.00	
				Other Type Share				
Plant & Machineries	0.00	34.50	34.50	Capital	0.00	0.00	0.00	
Motor Vehicles	0.00	6.00	6.00	Reserves & Surplus	0.00	0.00	0.00	
Office Automation Equipments	0.00	18.50	18.50	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	108.26	108.26	
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00	
Provision for Contingencies	0.00	3.00	3.00	Unsecured Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	14.44	14.44					
TOTAL	0.00	144.34	144.34	TOTAL	0.00	144.34	144.34	

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	4.59	8.02	14.59	24.00	0.00	100.00	4.59	0.00	4.59	1.00	0.00
2-3	8.46	11.46	23.05	18.00	0.00	100.00	8.46	0.00	8.46	1.00	0.00
3-4	12.11	14.75	35.16	12.00	0.00	100.00	12.11	0.00	12.11	1.00	0.00
4-5	15.49	17.80	50.65	6.00	0.00	100.00	15.49	0.00	15.49	1.00	0.00
5-6	18.55	20.59	69.19	0.00	0.00	100.00	18.55	0.00	18.55	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%		%			
Initial				3.00	3.00									
1-2	1.22	1.22		1.64	1.64	2.48		14.26%	5.96%	4.15%	219.78	55.00%	2.23	1.00
2-3	1.63	1.42		0.78	0.78	1.39		17.12%	10.04%	6.55%	254.39	54.57%	2.39	1.27
3-4	2.11	1.63	2.08	0.34	0.34	0.79		18.98%	12.82%	8.20%	290.68	54.56%	2.38	1.65
4-5	2.65	1.85		0.12	0.12	0.47		20.16%	14.69%	9.32%	326.97	54.55%	2.26	2.10
5-6	3.26	2.08		0.00	0.00	0.28		20.85%	15.89%	10.05%	363.26	54.54%	2.09	3.37

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	68.75%
Total BEP (% of Installed Capacity)	70.78%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.71%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	8.083

Major Queries/Questions Answered in the Report?

- 1. What is Crosslinked Sodium Carboxymethyl Cellulose Manufacturing industry ?**
- 2. How has the Cross-Linked Sodium Carboxymethyl Cellulose Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Cross-Linked Sodium Carboxymethyl Cellulose Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Crosslinked Sodium Carboxymethyl Cellulose Manufacturing plant ?**

- 5. What is the structure of the Cross-Linked Sodium Carboxymethyl Cellulose Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Cross-Linked Sodium Carboxymethyl Cellulose Manufacturing Business?**
- 7. What are the operating costs for setting up Cross-Linked Sodium Carboxymethyl Cellulose Manufacturing plant ?**
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10. What are the requirements of raw material for setting up Crosslinked Sodium Carboxymethyl Cellulose Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Crosslinked Sodium Carboxymethyl Cellulose Manufacturing Business?

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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 Cross-linked Sodium Carboxymethyl Cellulose” provides an insight into Cross-linked Sodium Carboxymethyl Cellulose market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Cross-linked Sodium Carboxymethyl Cellulose project. The report assesses the market sizing and growth of the Indian Cross-linked Sodium Carboxymethyl Cellulose 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 Cross-linked Sodium Carboxymethyl Cellulose sector in India along with its business prospects. Through this report we have identified Cross-linked Sodium Carboxymethyl Cellulose project as a lucrative investment avenue.

Tags

Cross-Linked CMC Manufacturing Industry, Croscarmellose Sodium or Modified Cellulose Gum, Cross-Linked Sodium Carboxymethyl Cellulose, Uses of Cross-Linked Sodium Carboxymethyl Cellulose, Application of Cross-Linked Sodium Carboxymethyl Cellulose, Process for Producing Sodium Carboxymethylcellulose, Production of Croscarmellose Sodium, Production of Crosslinked Sodium Carboxymethyl Cellulose, Cross-Linked CMC Manufacturing Industry, Cross-Linked Sodium Carboxymethyl Cellulose Manufacturing Project, Crosslinked Sodium-CMC, Preparing Cross-Linked Sodium Carboxymethyl Cellulose, Use of Cross-Linked Carboxymethyl Cellulose for Soft-Tissue Augmentation, Cross-Linked Sodium Carboxymethyl Cellulose Manufacturing Project Ideas, Production of Modified Cellulose Gum, Projects on Small Scale Industries, Small scale industries projects ideas, Cross-linked Sodium Carboxymethyl Cellulose Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries, Cross-linked Sodium Carboxymethyl Cellulose Projects, New project profile on Cross-linked Sodium Carboxymethyl Cellulose Production, Project Report on Cross-linked Sodium Carboxymethyl Cellulose,

Detailed Project Report on Cross-linked Sodium Carboxymethyl Cellulose Production, Pre-Investment Feasibility Study on Cross-linked Sodium Carboxymethyl Cellulose Production, Techno-Economic feasibility study on Cross-linked Sodium Carboxymethyl Cellulose Production, Feasibility report on Cross-linked Sodium Carboxymethyl Cellulose, Free Project Profile on Cross-linked Sodium Carboxymethyl Cellulose Manufacturing Business, Project profile on Cross-linked Sodium Carboxymethyl Cellulose, Download free project profile on Cross-linked Sodium Carboxymethyl Cellulose, Industrial Project Report, Project consultant, Project consultancy, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients, Startup Project for Cross-linked Sodium Carboxymethyl Cellulose Production

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can provide Detailed Project Report on
Production of Crosslinked Sodium
Carboxymethyl Cellulose.**

**Cross-Linked CMC Manufacturing Industry.
Cross-Linked Sodium Carboxymethyl Cellulose
Manufacturing Project.**

Croscarmellose Sodium or Modified Cellulose Gum

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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.



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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.

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- *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

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