

Production of
Urea Formaldehyde UF85
Start Own Industry of
Urea
Formaldehyde



Introduction

UFC-85 is a viscous liquid containing 60% formaldehyde, 25% urea and balance water. Formaldehyde is first produced by the reaction of methanol with air. This is then absorbed in urea solution to form UFC-85.

Urea formaldehyde is the very common chemical and is mostly used because of its chemical properties. Examples are textiles, paper, foundry sand molds, wrinkle resistant fabrics, cotton blends, rayon, corduroy, etc. also used to glue wood together. Urea-formaldehyde (UF), also known as urea-methanal, so named for its common synthesis pathway and overall structure, is a non-transparent thermosetting resin or polymer. It is produced from urea and formaldehyde.



Urea-formaldehyde (UF) resins are the most important type of thermosetting polymers and consist of linear or branched oligomers as well as polymers with some amounts of monomers. They are formed as a sequence of the following reactions of urea and formaldehyde.

Urea-formaldehyde concentrate is a clear, viscous liquid consisting of formaldehyde, urea, and a small amount of water. It provides the highest concentration of urea formaldehyde commercially available in an easy-to-use form in several industries. It is an intermediate chemical used for many other derivatives based on Urea Formaldehyde solution. It is also known as TMU (Tetra Methylol Urea) and Form urea. Its long strong time, high solid content, proper fluidity, low water content and clearness, makes it an excellent intermediate compound for chemical/industrial purposes.



Urea-formaldehyde (UF) resin, one of the most important formaldehyde resin adhesives is a polymeric condensation product of formaldehyde with urea, and being widely used for the manufacture of wood-based composite panels, such as plywood, particleboard, and fiberboard. In spite of its benefits such as fast curing, good performance in the panels (colorless), and lower cost; formaldehyde emission (FE) originated from either UF resin itself or composite products bonded by UF resins is considered a critical drawback as it affects human health particularly in indoor environment.



Uses

- Conditioner/anticaking agent for urea fertilizer
- Urea formaldehyde liquid resins
- UF powdered resins
- UF molding compound materials
- Permanent press resins for Textiles
- Protective coatings formulations from Alkyd resins

Urea formaldehyde is the very common chemical and is mostly used because of its chemical properties. Examples are textiles, paper, foundry sand molds, wrinkle resistant fabrics, cotton blends, rayon, corduroy, etc. also used to glue wood together. Urea formaldehyde is mostly used when producing electrical appliances casing also desk lamps. It is widely chosen as an adhesive because of its property of high reactivity wonderful performance and low price.

It is a chemical combination of urea and formaldehyde and is not poisonous in nature. The Examples of amino resins include tires from automobile industry in order to improve the bonding of rubber to tire cord, paper for improving tear strength, molding electrical devices, molding jar caps, etc.

Urea formaldehyde is also used in agricultural field as a source of nitrogen fertilizer and its rate of decomposition is into CO_2 and NH_3 and is determined by the action of microbes found naturally in soils.



Market Outlook

Urea formaldehyde resin (UFR) is non-transparent thermosetting synthetic resin derived from a chemical mixture of urea and formaldehyde. It is mainly consumed as an adhesive for bonding construction and building materials. Globally, development of efficient and advanced technology, rising demand for good quality and economically viable adhesives and resins, flourishing automotive industry, growing electrical appliances, and advantageous properties of urea formaldehyde such as, high tensile strength, flexural modulus and scratch resistant are the prime growth drivers of the urea formaldehyde market.



Three different polymer composites of epoxy resins are being synthesized which are modified by urea formaldehyde. Some of its end use applications are plywood, medium density fiberboard, and coatings. Paper, textile, corduroy, rayon are among various industries that requires urea formaldehyde formed adhesives in their operations. Increase in adoption of urea formaldehyde for application in new industrial verticals, and emerging economies such as China, India and others, will create new opportunities for the urea formaldehyde market. Growth in the automotive industry and increasing demand for electrical and electronics products are driving the global market for flat glass. However, the harmful and toxic effects of formaldehyde resins act as a roadblock to the market growth. The demand for good quality and economically viable adhesives and resins is expected to fuel the market of urea formaldehyde. The urea formaldehyde resin market can be segmented into automobiles, electrical appliance, home appliances (furniture), agriculture, and others.

Adhesives are used to glue wood together in industries that deal in textile, paper, foundry sand molds wrinkle resistant fabrics, cotton blends, rayon, corduroy, etc. Urea formaldehyde resin glues are used in the aircraft industry for gluing plywood and wooden aircraft structures. It is also primarily used in electrical appliances for casing. Urea formaldehyde resin is used in agricultural field as a source of nitrogen fertilizer to increase the productivity of crops.

Formaldehyde and its resins are used in various building construction materials such as pressed wood products. Urea formaldehyde is used as an adhesive in these construction materials. It is mixed while constructing home walls, which acts as an insulating agent. The global construction material market is expected to grow. This growth is witnessed due to the growing government expenditure on infrastructure and expansion of commercial and real estate market. Therefore, as the demand for construction material is growing in the global market.

Asia Pacific is expected to contribute to formaldehyde market growth with its emerging construction and automotive markets. Other regions such as Europe and Latin America are expected to witness steady demand growth. Urea formaldehyde resin is a non-transparent, cross-linked thermoset resin or plastic obtained by chemical combination of urea and formaldehyde. It offers properties such as high tensile strength, flexural modulus, scratch resistance, high heat distortion temperature, low water absorption, mold shrinkage, high surface hardness, elongation at break, and volume resistance urea formaldehyde resins are used as adhesives in various end-use industries.

The global Urea Formaldehyde market was valued at 8390 million US\$ in 2018 and will reach 12800 million US\$ by the end of 2025, growing at a CAGR of 5.4% during 2019-2025.

Key Players

The DOW Chemical Company, Ashland Inc, DuPont, Kronospan Ltd, Advachem SA, Metafrax, Togliattiazot, Advachem, Shchekinoazot, Hexion, Foremark, Fars Chemical, Georgia-Pacific, OFCC, Sprea Misr, Polisan Kimya, KARPATSMOLY, Jilin Forest, Jam Pars Formalin, Shreenathji Rasayan



Machinery Photographs



Jacketed Reactor



Boiler



Cooling Tower



Pipeline and Pump

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site							
Development Exp.	0.00	19.00	19.00	Capital	0.00	44.75	44.75
Buildings	0.00	83.60	83.60	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	32.00	32.00	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	7.00	7.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	15.30	15.30	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	7.00	7.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium			
Deposits	0.00	0.00	0.00	Term Borrowings	0.00	134.26	134.26
Preliminary& Pre-				Debentures /			
operative Exp	0.00	1.00	1.00	Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	2.70	2.70	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	11.42	11.42				
TOTAL	0.00	179.02	179.02	TOTAL	0.00	179.02	179.02

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	
	USD	USD	USD	USD	USD	%	USD	%	USD		%
1-2	474.74	851.31	484.74	2400.00	0.00	100.00	474.74	0.00	474.74	1.00	0.00
2-3	827.23	1160.68	1311.97	1800.00	0.00	100.00	827.23	0.00	827.23	1.00	0.00
3-4	1161.58	1457.31	2473.55	1200.00	0.00	100.00	1161.58	0.00	1161.58	1.00	0.00
4-5	1473.31	1736.03	3946.86	600.00	0.00	100.00	1473.31	0.00	1473.31	1.00	0.00
5-6	1759.59	1993.36	5706.44	0.00	0.00	100.00	1759.59	0.00	1759.59	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	1.27	1.27		1.63	1.63	2.06		18.87%	10.11%	6.86%	220.79	71.31%	1.58	0.92
2-3	1.65	1.45		0.78	0.78	1.10		22.82%	15.83%	10.25%	257.57	71.31%	1.71	1.35
3-4	2.09	1.65	2.06	0.35	0.35	0.58		25.40%	19.73%	12.59%	294.37	71.31%	1.72	1.93
4-5	2.58	1.85		0.12	0.12	0.31		27.04%	22.38%	14.20%	331.16	71.31%	1.63	2.63
5-6	3.16	2.06		0.00	0.00	0.15		28.00%	24.13%	15.26%	367.96	71.31%	1.51	5.43

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	63.32%
Total BEP (% of Installed Capacity)	66.17%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.27%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	5.071

Major Queries/Questions Answered in the Report?

- 1. What is Urea Formaldehyde UF85 Manufacturing industry ?**
- 2. How has the Urea Formaldehyde UF85 Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Urea Formaldehyde UF85 Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Urea Formaldehyde UF85 Manufacturing plant ?**

5. What is the structure of the Urea Formaldehyde UF85 Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Urea Formaldehyde UF85 Manufacturing Business?

7. What are the operating costs for setting up Urea Formaldehyde UF85 Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Urea Formaldehyde UF85 Manufacturing plant ?

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Urea Formaldehyde UF85 Manufacturing plant ?

10. What are the requirements of raw material for setting up Urea Formaldehyde UF85 Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Urea Formaldehyde UF85 Manufacturing Business?

12. What is the Manufacturing Process of Urea Formaldehyde UF85 ?

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- 14. What will be the income and expenditures for Urea Formaldehyde UF85 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 Urea Formaldehyde UF85 .” provides an insight into Urea Formaldehyde UF85 market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Urea Formaldehyde UF85 project. The report assesses the market sizing and growth of the Indian Urea Formaldehyde UF85 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 Urea Formaldehyde UF85 sector in India along with its business prospects. Through this report we have identified Urea Formaldehyde UF85 project as a lucrative investment avenue.

Tags

#Urea_Formaldehyde_Uf85_in_Project_Reports_&_Profiles,
#Liquid_Urea_Formaldehyde_Resin_Manufacturing_Industry,
#Project_Report_on_Urea_Formaldehyde_Powder_Amp_Melamine,
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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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- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

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](#)



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- *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

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