

WHAT IS

COPPER POWDER USING ELECTROLYTIC COPPER REFINING AND WATER ATOMIZATION

AND HOW IS IT PRODUCE AND SETUP THE PLANT



Simple and Easiest Method for Copper Powder Using
Electrolytic Copper Refining and Water Atomization Production

INTRODUCTION

The majority of copper's impurities, including sulphur and phosphorus, are eliminated during the electrolytic copper refining process. De-oxidizing the copper, which removes the oxygen and makes it usable in further processes, is the first stage in the electrolytic copper refining process. Sulfuric acid is used to remove the phosphorus from the metal after deoxidation.

After the phosphorus has been removed, sodium carbonate (washing soda) is added to balance out any acid that may have remained. Finally, any remaining sodium carbonate is dissolved to produce a purer product using hydrochloric acid (muriatic acid) or ferric chloride (iron chloride). The two main steps of the water atomization process are typically as follows: Ionized water droplets are produced in the first stage by electrically currenting regular tap water. After passing over an electrically charged grid, these droplets are coated with zinc and magnesium ions, which dissolve the hydrogen bonds that hold the molecules of water together.

Visit this Page for More Information: [Start a Business in Copper Industry](#)

USES AND APPLICATIONS

Due in great part to its outstanding electrical and thermal conductivity, copper is one of the most widely utilized industrial metals worldwide. It can be found in several electrical components, including wire, circuit boards, transformers, electric motors, power cables, batteries, and more. Additionally, it is utilized in construction products like gas or plumbing pipes. Copper can also be found in jewelry and coins.



All of these necessitate the existence of copper powder manufacturing facilities that can effectively meet demand. The finest technologies at the moment are those listed below:

- Depending on the needs of the customer, the electrolytic process yields pure copper metal in a variety of shapes and sizes.
- Spherical particles up to 1 mm in diameter are produced by the water atomization process and are well suited for usage in electronic components.

It's crucial to choose a system with high throughput rates, high purity levels, and low running costs when deciding which technology to employ. Higher purity levels can be attained in a facility using both water atomization and electrolytic refining than with either process alone.

Related Business Plan: [Copper Powder Using Electrolytic Copper Refining and Water Atomization Technology](#)

MANUFACTURING PROCESS

The following steps are involved in starting a copper powder production utilizing electrolytic copper refining technology:

From raw materials, create the appropriate size metal billets, rods, plates, or bars; Convert the metal plates, rods, or billets into liquid metal by melting them; Insert an anode mould with the liquid metal; To remove impurities from the liquid metal, run electric current through it for roughly three hours; Eliminate contaminants by filtering with slag.

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Vaporize pure liquid metal until it solidifies into a substance with a low melting point that may be rolled, pressed, or otherwise formed; By quenching, finish shaping the low-melting-point solidified material into any shape you desire, including bars, wire, strips, rods, and so on (or sudden cooling).

Watch Video: [Copper Powder](#)
[by Electrolytic Process](#)



BENEFITS OF STARTING A PLANT OF COPPER POWDER USING ELECTROLYTIC COPPER REFINING AND WATER ATOMIZATION TECHNOLOGY

The following are the advantages of starting a Copper Powder Plant using Electrolytic Copper Refining and Water Atomization Technology: One of the main advantages of starting up this kind of plant is the ability to save money. The manufacturing procedure assures that the production costs are significantly lower than in any other factories.

Related Feasibility Study Reports: [How To Start A Copper Powder Manufacturing Business Using Electrolytic Copper Refining And Water Atomization Technology](#)

A project proposal is a document that describes a proposed project and its purpose, outcomes, and This implies that you will be able to sell your goods for less, making them more accessible to your clients. Additionally, since customers will find your company on their own, you won't need to spend a lot of money on promotion. Low Carbon Emission - The large quantities of CO2 that fossil fuels release into the atmosphere is one of the reasons why we should start using them less. Such a facility also offers numerous additional advantages, such as a less carbon footprint and environmental friendliness. Another benefit is the easiness with which you can easily generate anywhere between 5,000 and 100,000 pounds of copper powder each day.

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MARKET SIZE IN INDIA

The demand-supply, trade, and pricing trends in the Indian copper sector over the previous five years, as well as the situation during the current fiscal year (2019–2020) and future prospects. One of the main markets for copper is India. Since 2000, the nation has produced the second-most primary copper in the world.



India's output is predicted to increase from 2.8 million metric tonnes in 2014 to 3.2 million metric tonnes in 2015. In 2015, India's consumption increased by 10% after declining from 2009 through 2013. As a result of trade restrictions, demand rose. India already consumes a significant volume of this commodity, and the market is expanding.

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GLOBAL MARKET OUTLOOK

According to the report "Copper Powder Market Information by Type, Process, End-use, and Region - Forecast to 2030," the market is anticipated to grow at a 4.22% CAGR to reach USD 941.52 million by 2030. The automotive industry's rising need for powder metallurgy and the variety of ways that atomized copper powders are used in surface coating processes are driving the global market.



Additionally, important end-use industries like aerospace, steel, oil and gas, and power generation have seen a steady rise in demand for improved surface coating technologies. These technologies require copper powder, and the demand for it is anticipated to increase soon. Additionally, maritime paints occasionally incorporate copper powder as a biocide. As a result, copper powder's adaptability is a key demand driver. Factors including rising demand in the electrical and electronics industries and the production of industrial gear are boosting the need for copper powder. It is also a well-liked metal powder for uses in powder metallurgy and rapid prototyping. However, the principal raw material's price variations are anticipated to be a substantial barrier to the growth of demand. But in the next years, it is anticipated that the robust demand for copper powder in 3D printing applications will propel the market's expansion.

KEY PLAYERS

- Mitsui Mining & Smelting Co.
- Sumitomo Metal Mining Co. Ltd (Japan)
- Shanghai CNPC Powder Material Co.
- Kymera International (US)
- Fukuda Metal Foil & Powder Co.
- Gripm Advanced Materials (China)
- GGP Metalpowder AG (Germany)
- Pometon S.p.A. (Italy)
- Carl Schlenk AG (Germany)
- Changsung Corporation (Korea)
- Anhui Xu Jing Powder Materials Co.
- SAFINA Materials (Romania)
- American Chemet Corporation (US)

PROJECT AT A GLANCE

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	10.00	10.00	Capital	0.00	84.45	84.45
Buildings	0.00	0.00	0.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	169.50	169.50	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	5.00	5.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	101.25	101.25	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	10.00	10.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	253.35	253.35
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	15.00	15.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	22.05	22.05				
TOTAL	0.00	337.80	337.80	TOTAL	0.00	337.80	337.80

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	4.98	9.80	14.98	24.00	0.00	100.00	4.98	0.00	4.98	1.00	0.00
2-3	7.92	12.08	22.90	18.00	0.00	100.00	7.92	0.00	7.92	1.00	0.00
3-4	10.81	14.41	33.72	12.00	0.00	100.00	10.81	0.00	10.81	1.00	0.00
4-5	13.59	16.70	47.31	6.00	0.00	100.00	13.59	0.00	13.59	1.00	0.00
5-6	16.23	18.93	63.53	0.00	0.00	100.00	16.23	0.00	16.23	1.00	0.00

Year	D. S. C. R.			Debt / - 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 Contributi on			P/V Ratio
	(Number of times)			(Number of times)	%	%	%	%	%	%				
Initial				3.00	3.00									
1-2	1.43	1.43		1.60	1.60	2.37		16.42%	6.49%	4.91%	333.38	38.91%	2.05	1.02
2-3	1.74	1.58		0.79	0.79	1.36		18.63%	9.93%	6.69%	387.27	38.74%	2.23	1.34
3-4	2.11	1.75	2.11	0.36	0.36	0.80		20.12%	12.33%	7.99%	442.55	38.74%	2.26	1.71
4-5	2.53	1.92		0.13	0.13	0.48		21.13%	14.01%	8.93%	497.83	38.74%	2.19	2.12
5-6	3.03	2.11		0.00	0.00	0.29		21.80%	15.17%	9.60%	553.12	38.73%	2.07	3.39

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****56.68%****Total BEP (% of Installed Capacity)****60.80%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****26.96%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****8.579**

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Copper Tamping Powder for Carbon Brushes

**1.IS 7438 : 2022 Metallic powders Determination of acid-insoluble
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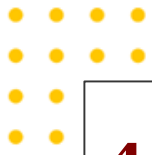
TAGS

***#Copper, #Copperpowder, #Copperproduct, #Copperware,
#Copperexpert, #Electrolyticcopper, #Refining, #Copperrefining,
#Wateratomization, #Atomization, #Electrolytic, #Copperbusiness,
#Coppermarket, #Copperindustry, #Coppermanufacturing,
#Copperproduction, #Businessplan, #Startupideas,
#Businessconsultant, #Businessideas, #Startupbusiness, #Business,
#Businessopportunity, #Manufacturingbusinessplan,
#Mostprofitablebusiness, #Startup, #NPCS, #Entrepreneurindia,
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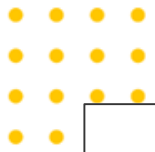


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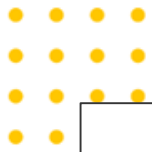


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- 
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- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

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- Individual Entrepreneurs
- NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
- Copper & Copper Based Projects

- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing
- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
- Infrastructure Projects
- Jute & Jute Based Products



- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.

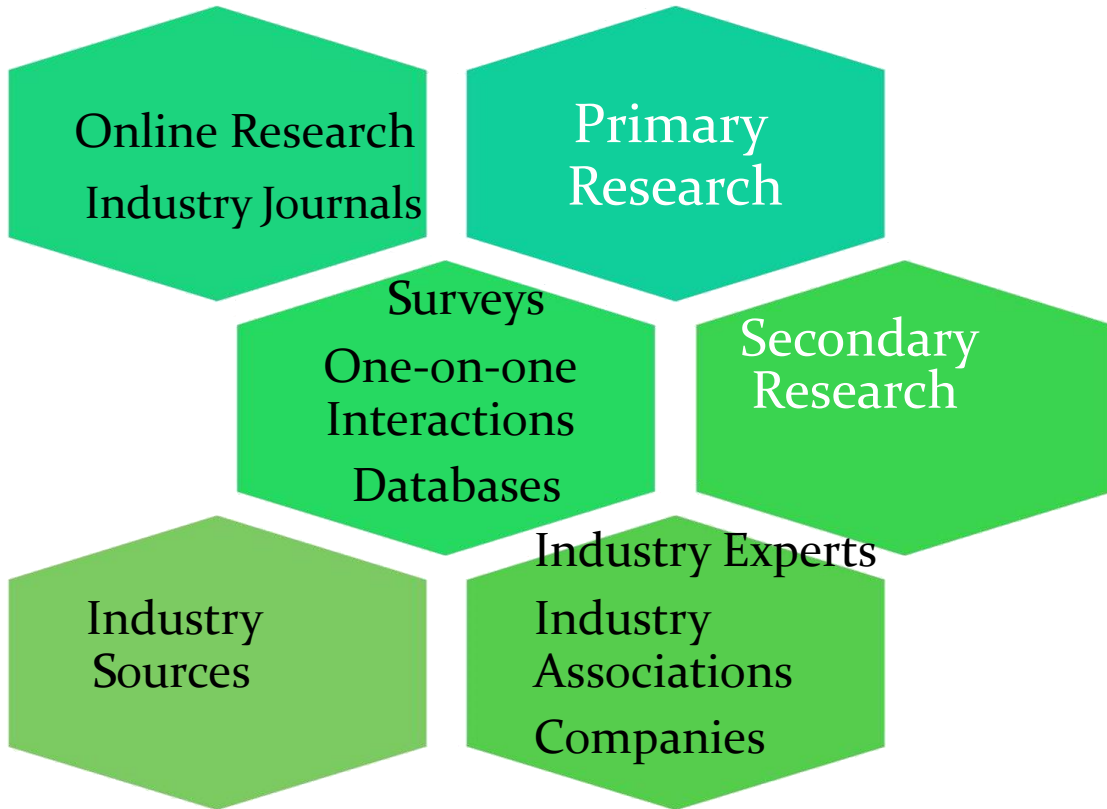
- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
 - Growth drivers of the industry
 - Latest market trends
 - Insights on regulatory framework
 - SWOT Analysis
 - Demand-Supply Situation
 - Foreign Trade
 - Porters 5 Forces Analysis
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
 - Key players with their market shares
 - Financial comparison of present players

- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

[Click here for list](#)

Data Sources



Scope & Coverage



✧ Our research team comprises of experts from various financial fields:

✧ MBA's

✧ Industry Researchers

✧ Financial Planners

✧ Research veterans with decades of experience



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NIIR PROJECT CONSULTANCY SERVICES

Entrepreneur India

Contact us

NIIR PROJECT CONSULTANCY SERVICES

Entrepreneur India

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

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

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

Mobile: +91-9097075054, 8800733955

Fax: +91-11-23845886

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

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