

Synthetic Red Iron Oxide

Manufacturing

Business.

Production of Iron Oxide

Pigments.

Synthetic Iron Oxide Factory



Introduction

Synthetic red iron oxide is the most common colorant in ceramics and has the highest amount of iron. It is available commercially as a soft and very fine powder made by grinding ore material or heat processing ferrous/ferric sulphate or ferric hydroxide. During firing all irons normally decompose and produce similar colors in glazes and clay bodies (although they have differing amounts of Fe metal per gram of powder).



Red iron oxide is available in many different shades from a bright light red at a deep red maroon, these are normally designated by a scale from about 120-180 (this number designation should be on the bags from the manufacturer, darker colors are higher numbers), however in ceramics these different grades should all fire to a similar temperature since they have the same amount iron. The different raw colors are a product of the degree of grinding.

Synthetic Iron Oxides have become increasingly important due to their pure hue, consistent properties, and tinting strength. Single-component forms are mainly produced with red, yellow, orange and black colours. Their composition corresponds to that of minerals hematite, goethite, lepidocrocite, and magnetite. Brown pigments usually consist of mixtures of red and/or yellow and/or black iron oxides.

Uses of Synthetic Iron Oxide Pigments

These pigments are used in wood and paper stains, linoleum, oilcloth, paints, mortar, plaster, bricks, rubber and for other pigment able substances. The range of applications of synthetic Iron Oxide Pigments is longer than the Natural Iron Oxide Pigments.

Synthetic Iron Oxide are used in the following types of industry:

- **Cement industry, to Colour every kind of cement, mortar, grout, pavements, tiles, blocks, etc.**
- **Paintings: primer, waterproof, enamels, decoration painting, coverings, etc.**
- **Plastics: master batch, PVC, etc.**
- **Paper industry: carton, mouthpiece for cigarettes, etc.**
- **Glass industry, abrasives, food for animals, cosmetics, skins rubber, asphalt, etc.**

Market Outlook

Today, there is a lot of varieties of Synthetic Iron Oxide Pigments are available in the market. These synthetic pigments are found in different colors, having superior uniformity, excellent quality and high purity. But, in reality, the Natural Iron Oxide Dyes are preferred over their counterparts. This is because of their ample availability and low cost of extraction.

Iron oxide pigments improve the physical and mechanical properties of substrates. They offer properties such as good color strength, heat & light stability, opacity, weather & chemical resistance, and durability to substrates. Iron oxide pigments provides colors to varieties of end user applications and are employed in numerous industries around the globe to provide permanent and stable coloring effects to the substrates.

Pigments are also known as colorants, which are insoluble products that can be employed to impart colors to construction materials, paints, inks, plastics, papers, cosmetics, rubbers, concrete blocks, tiles, etc. Pigment molecules contain electrons that can occupy different energy levels when exposed to light. Pigments possess the ability to reflect or absorb light of specific wavelengths. This results in the appearance of colors.

Iron oxide pigments can be sub-divided into synthetic and natural iron oxide pigments. Synthetic iron oxide pigments are made from petrochemicals and waste metal ore slurry. Synthetic iron oxide pigments are cheap as compared to organic iron oxide pigments owing to low cost of raw material as well as synthetic iron oxide pigments have good dispersibility, high tinting strength, UV stability, excellent color intensity, and non-toxic properties.

Natural iron oxide pigments are costly as compared with its synthetic counterpart owing to high cost of raw material. Natural iron oxide pigments are more durable and have excellent tinting strength as compared with synthetic pigments. Most of the natural iron oxide pigments are employed in paints & coatings and other automotive applications. Consumption of synthetic iron oxide pigments is much higher as compared with natural iron oxide pigments owing to low cost and high flexibility in varieties of applications in concretes, mortar, render, paving stones, tiles, laminate flooring, cosmetics, rubber, corrosion paints, industrial paints, architectural paints, and plastic materials. Growing construction activities, recovering economy in developed countries, and expanding infrastructure programs in combination with growing urbanization in developing economies, are the prime factors responsible for the growing consumption of iron oxide pigments around the globe.

Global Iron Oxide Pigments Market Share (%), By Region (2017)

Asia Pacific



Europe



Middle East and Africa



North America



Latin America



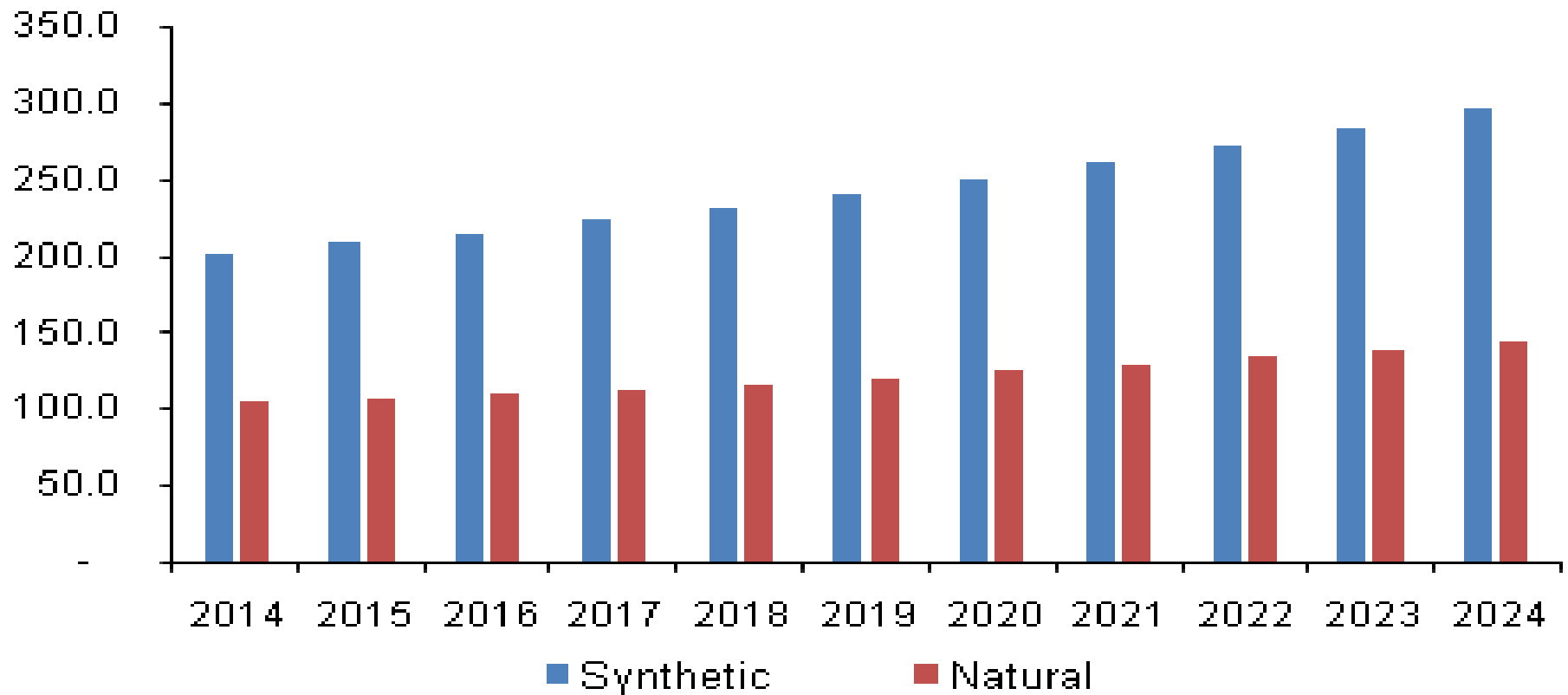
CAGR 5.0% (2017-2025)



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U.S. Iron Oxide Pigment Market Revenue by Product, 2014-2024 (USD Million)



Growing construction industry in Asia Pacific and the Middle East are anticipated to drive market growth over the next eight years. Favorable government regulations regarding environmentally friendly products coupled with technological advancements are expected to have a positive impact on market growth.

Iron oxide pigments in Asia Pacific shows huge growth potential due to the rising expectation of consumers. Moreover, demand for blend iron ore pigments is increasing at a higher rate globally. Construction is the largest end-use Industry. The improving economic conditions are driving the construction industry, which in turn is fueling the growth of iron oxide pigments market. Asia Pacific and Europe are the key market which together contribute more than half of the iron oxide pigments market.

Among end users, the coatings segment is expected to grow at the highest CAGR during the forecast period. High demand of iron oxide pigments across varied applications, such as interior and exterior coatings, industrial coatings, protective coatings, wood coatings, automotive coatings, architectural coatings, and appliances coating, is expected to drive the consumption of iron oxide pigments in this segment.

Few Indian Major Players are as under:

- **Coltech Chemicals (India) Ltd.**
- **Heubach Toyo Colour Pvt. Ltd.**
- **Lona Industries Ltd.**
- **Mallak Oilchem Pvt. Ltd.**
- **Anirox Pigments Ltd.**
- **Aquathane Chemicals Pvt. Ltd.**
- **Asahi Songwon Colors Ltd.**

Machinery Photographs



PVC STORAGE TANK



SETTLING TANK (MS)



PRECIPITATION MS TANK



BOILER

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	45.00	45.00	Capital	0.00	72.97	72.97
Buildings	0.00	75.00	75.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	83.50	83.50	Other Type Share	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Capital	0.00	0.00	0.00
Office Automation Equipments	0.00	33.75	33.75	Reserves & Surplus	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	12.00	12.00	Cash Subsidy	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Internal Cash Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Long/Medium Term Borrowings	0.00	218.92	218.92
Provision for Contingencies	0.00	7.50	7.50	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	25.15	25.15	Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	291.90	291.90	TOTAL	0.00	291.90	291.90

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	5.24	8.93	15.24	24.00	0.00	100.00	5.24	0.00	5.24	1.00	0.00
2-3	8.45	11.68	23.68	18.00	0.00	100.00	8.45	0.00	8.45	1.00	0.00
3-4	11.57	14.41	35.25	12.00	0.00	100.00	11.57	0.00	11.57	1.00	0.00
4-5	14.55	17.04	49.80	6.00	0.00	100.00	14.55	0.00	14.55	1.00	0.00
5-6	17.35	19.54	67.14	0.00	0.00	100.00	17.35	0.00	17.35	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	1.31	1.31		1.58	1.58	2.67		10.74%	5.46%	3.79%	318.65	31.61%	2.53	1.02
2-3	1.66	1.48		0.76	0.76	1.57		12.41%	8.01%	5.24%	371.75	31.61%	2.70	1.24
3-4	2.07	1.66	2.05	0.34	0.34	0.96		13.53%	9.80%	6.28%	424.86	31.61%	2.71	1.52
4-5	2.54	1.85		0.12	0.12	0.61		14.26%	11.05%	7.02%	477.97	31.61%	2.61	1.83
5-6	3.10	2.05		0.00	0.00	0.41		14.72%	11.91%	7.53%	531.07	31.61%	2.46	2.65

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	59.30%
Total BEP (% of Installed Capacity)	62.32%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.63%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	10.326

Major Queries/Questions Answered in the Report?

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

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

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Synthetic Red Iron Oxide Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Synthetic Red Iron Oxide Manufacturing plant ?**
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- 12. What is the Manufacturing Process of Synthetic Red Iron Oxide?**

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

Tags

Synthetic Red Iron Oxide, Iron Oxide Pigments, Synthetic Iron Oxide, Preparation of Red Iron Oxide, Production of an Iron Oxide Pigment, Making of Iron Oxide Pigment, Synthetic Iron Oxide Production Process, Synthetic Iron Oxide Uses, Iron Oxide Pigment Manufacturing Process, Synthetic Iron Oxide Pigments Manufacture, Manufacturing of Iron Oxide, Iron Oxide Pigments Manufacturing Process, Manufacturing of Synthetic Red Iron Oxide Pigments, Iron Oxide Synthetic, Synthetic Iron Oxide Production Process, Manufacturing Industry for Synthetic Iron Oxide, Synthetic Iron Oxide Manufacture, Synthetic Iron Oxide Manufacturing, Iron Oxide Factory, Iron Oxides Manufacture, Preparation of Iron Oxide, Synthetic Iron Oxide Production Process Ppt, Red Iron Oxide Manufacture, Synthetic Iron Oxide Manufacture in India, Iron Oxide Pigments Manufacturing Process, Project Report on Synthetic Red Iron Oxide manufacturing Industry, Detailed Project Report on Synthetic Iron Oxide Production, Project Report on Synthetic Iron Oxide Production, Pre-Investment Feasibility Study on Synthetic Red Iron Oxide manufacturing, Techno-Economic feasibility study on Synthetic Iron Oxide Production, Feasibility report on Synthetic Red Iron Oxide manufacturing, Free Project Profile on Synthetic Iron Oxide Production, Project profile on Synthetic Red Iron Oxide manufacturing, Download free project profile on Iron Oxide Production

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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.

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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- *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

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<https://goo.gl/VstWkd>



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