

Global Industrial Chromic Anhydride Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Chromic Anhydride market size was valued at US\$ 1158 million in 2024 and is forecast to a readjusted size of USD 1512 million by 2031 with a CAGR of 3.9% during review period.

Industrial chromic anhydride, also known as chromium trioxide (CrO_3), is a chemical compound commonly used in various industrial applications. It's a powerful oxidizing agent, typically found as a dark red or brown solid that is highly toxic and corrosive.

Chromic anhydride is extensively used in the electroplating industry, especially for chrome plating, where it helps to create a durable, corrosion-resistant surface on metal objects. It is used in the anodizing process to enhance the corrosion resistance and surface hardness of metals like aluminum. It is used as a wood preservative, particularly in the treatment of utility poles, railway ties, and other wooden structures, to protect against decay and pests. In the manufacture of pigments, especially for green and yellow colors, chromic anhydride is a key ingredient. Due to its strong oxidizing properties, chromic anhydride is used in organic synthesis and other chemical processes where oxidation is required.

The global production capacity of chromic acid / industrial chromic anhydride is mainly concentrated in countries and regions such as China, the United States and Europe. As a major manufacturing country in the world, China's industrial chromic anhydride production capacity and output occupy an important position. In recent years, with technological progress and industrial upgrading, production efficiency and product quality have been continuously improved. The United States and Europe also occupy an important share in the global industrial chromic anhydride market with their strong

industrial foundation and advanced production technology.

In fact, the development trend of the domestic industry is also in line with the consistent development trend of the international market. The competition and integration trend of the international chromic acid industry has become more prominent, and a market pattern has gradually formed in which only one dominant chromium salt enterprise remains in a certain region. China has become the world's largest producer and consumer of chromic acid, contributing 47% of the world's industrial chromic anhydride production. With the continuous improvement of production capacity, the influence of domestic industrial chromic anhydride enterprises in the world market will gradually expand in the future.

From the perspective of product market application, metal processing is one of the main application areas of industrial chromic anhydride, especially in pickling, electroplating and anodizing. There is a large demand for chromic acid in this field because the metal processing industry has a wide and continuous need for surface treatment chemicals. Organic synthesis, as a core field of the chemical industry, involves organic compounds such as synthetic drugs, pesticides, plastics, and synthetic fibers, and there is also a large demand for chromic acid. Chromic acid has a long history of use in dye and pigment manufacturing, and although environmental regulations may limit certain applications, it remains an important chemical in this field. In addition, chromic acid also plays a role in wood treatment, ceramic and glass industries, aerospace, catalysts and other fields. The demand for chromic acid in these fields is relatively small, but it is very important in specific applications. For example, material surface treatment in the aviation and aerospace industries, coloring in the ceramic and glass industries, and applications as catalysts or catalyst precursors.

At present, major global manufacturers include Zhenhua Chemical, Sisecam, Galaxy Chemical, American Chrome & Chemicals, Brothers Technology, Vishnu Chemicals, Novotroitsk Plant of Chromium Compounds, etc. In 2023, the share of major manufacturers will exceed 74%, and the oligopoly pattern will begin to emerge. The increase in industry concentration will enable leading companies to enjoy greater dominance and pricing power. Combined with the steady growth in demand in downstream surface treatment, pigments, new materials and other fields, the turning point of the prosperity of the chromic acid industry under the improvement of the supply and demand pattern is approaching.

This report is a detailed and comprehensive analysis for global Industrial Chromic Anhydride market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Industrial Chromic Anhydride market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Industrial Chromic Anhydride market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Industrial Chromic Anhydride market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Industrial Chromic Anhydride market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Industrial Chromic Anhydride
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Industrial Chromic Anhydride market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hubei Zhenhua Chemical, Sisecam, Sichuan YinHe Chemical, American Chrome & Chemicals, Brother Enterprises Holding, Vishnu Chemicals, Novotroitsk Plant of Chromium Compounds, Plating International, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial Chromic Anhydride market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Superior Grade

First Grade

Qualified Grade

Market segment by Application

Metal Processing

Organic Synthesis

Dyes and Pigments Manufacturing

Leather Processing

Others

Major players covered

Hubei Zhenhua Chemical

Sisecam

Sichuan YinHe Chemical

American Chrome & Chemicals

Brother Enterprises Holding

Vishnu Chemicals

Novotroitsk Plant of Chromium Compounds

Plating International

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Industrial Chromic Anhydride product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Chromic Anhydride, with price, sales quantity, revenue, and global market share of Industrial Chromic Anhydride from 2020 to 2025.

Chapter 3, the Industrial Chromic Anhydride competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Chromic Anhydride breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Industrial Chromic Anhydride market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial Chromic Anhydride.

Chapter 14 and 15, to describe Industrial Chromic Anhydride sales channel, distributors, customers, research findings and conclusion.

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