

Global Ferroalloys Market: Analysis By Product (Ferrochrome, Ferromanganese, Ferrosilicon, and Ferro Silico Manganese), By Application (Carbon & Low Alloy Steel, Stainless Steel, Alloy Steel, Cast Iron, and Other Applications), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

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Abstracts

Ferroalloys are a group of iron alloys containing one or more elements other than carbon, such as high percentage of chromium, silicon, manganese, vanadium, etc. Global ferroalloys market is associated with production & supply of iron based alloys to various end user industries, including, steelmaking, construction, automotive, etc. The global ferroalloys market value stood at US\$50.06 billion in 2023, and is expected to reach US\$71.05 billion by 2029.

The global ferroalloys market has seen steady growth in recent years, driven by several key factors, including increasing industrialization, expanding automotive and construction sectors, and the rising demand for high-performance steel. Ferroalloys are critical in steel production, as they enhance properties such as durability, strength, and corrosion resistance, making steel more versatile for various industrial applications. Rapid urbanization in emerging economies, especially in Asia-Pacific, has spurred demand for infrastructure and construction projects, leading to higher consumption of steel and, subsequently, ferroalloys like ferromanganese, ferrochrome, and ferrosilicon. Additionally, governments worldwide are investing heavily in infrastructure development to support economic growth, which directly boosts the ferroalloy market as steel remains the foundational material for building and construction. In the forthcoming years, the ferroalloys market is expected to continue growing due to emerging trends in green steel production and eco-friendly manufacturing practices. As countries adopt

stricter environmental regulations, especially in Europe and North America, the ferroalloy industry is adapting by implementing cleaner production technologies, including the use of renewable energy sources and recycling methods. The market is expected to grow at a CAGR of 6.01% over the projected period of 2024-2029.

Market Segmentation Analysis:

By Product: The report provides the bifurcation of the global ferroalloys market into four segments on the basis of product namely, ferrochrome, ferromanganese, ferrosilicon, and ferro silico manganese. The ferrochrome segment held the highest share of the market, whereas the ferrosilicon is expected to be the fastest-growing segment in the forecasted period. Ferrochrome contains chromium, which enhances steel's hardness, corrosion resistance, and aesthetic appeal, making it indispensable for stainless steel manufacturing. With rising applications in construction, automotive, and consumer goods, especially in developing regions, stainless steel production has surged, driving demand for ferrochrome. Additionally, infrastructure projects, such as bridges, buildings, and public transportation systems, rely on stainless steel for its durability and low maintenance needs. Among the ferroalloy products, ferrochrome holds the largest market share primarily due to the high volume required for stainless steel. Similarly, ferrosilicon demand is on the rise, especially as industries recognize its value in steel manufacturing and foundry applications. It acts as a deoxidizing agent in steel production, enhancing strength and flexibility, which is crucial for high-performance steels used in modern construction and engineering applications. Additionally, ferrosilicon plays a key role in the production of silicon-steel, which is highly sought after in electrical applications due to its magnetic properties. With the global shift toward renewable energy sources, ferrosilicon is increasingly used in transformer and electric motor production for energy-efficient solutions.

By Application: The report provides the bifurcation of the global ferroalloys market into five segments on the basis of application, namely, carbon & low alloy steel, stainless steel, alloy steel, cast iron, and other applications. The demand for ferroalloys in the carbon and low alloy steel segment has been steadily increasing, driven by the extensive use of this steel type in infrastructure, construction, and transportation industries. Carbon and low alloy steels, known for their strength and malleability, are widely used in structural applications like beams, bridges, and machinery, which require durability and resistance to wear. Ferroalloys such as ferromanganese and ferrosilicon are essential in the production of carbon and low alloy steel, enhancing the steel's mechanical properties and making it suitable for demanding environments. Similarly, the demand for ferroalloys in cast iron production is expected to experience rapid growth in

the forecast period, driven by cast iron's increasing applications in heavy-duty industries such as automotive, plumbing, and municipal infrastructure. Cast iron's high durability and excellent machinability make it ideal for products like engine blocks, pipes, manhole covers, and construction machinery. The rising demand for industrial and municipal infrastructure upgrades, particularly in developing countries, is expected to boost cast iron usage, with ferroalloys like ferrosilicon and ferromanganese improving cast iron's properties.

By Region: The report provides insight into the global ferroalloys market based on regions namely, North America, Europe, Asia Pacific, and rest of the world. Asia Pacific is the largest region of global ferroalloy market owing to region's extensive steel manufacturing industry, rising consumer discretionary money, thriving local building sector, expansion of renewable energy projects, strong production base for steel & cast iron manufacturing, rapidly expanding automotive sector, low labor cost of ferro alloys production, and strong government support for industrial growth & infrastructure development in emerging economies like India, South Korea, and China. Also, the large production volume of crude steel in China, India, and Japan for use in residential and commercial construction and infrastructure development projects, as well as in the automotive & transportation, energy, and electronics industries, will continue to boost the demand of ferro alloys in the region. On the basis of region, Asia Pacific ferroalloys market is divided into four regions, namely, China, Japan, India, and rest of Asia Pacific, where China accounts for the largest share of Asia Pacific ferroalloys market owing to its dominant steel industry, increasing demand for stainless steel, high government-sponsored infrastructure spending, booming consumer electronics and electrical equipment sector, strong push towards renewable energy initiatives, country's robust mining and metallurgy industry, and positively expanding shipbuilding industry.

North America is the fastest growing region of global ferro alloys market owing to its well-established steel industry, growing demand for automotive, increasing investments in construction & infrastructure development projects, region's focus on technological innovation in metallurgy and production processes, presence of robust defense and aerospace industry, increased focus on sustainability & steel recycling initiatives, and presence of well-established end user industries such as, metallurgical, aerospace, construction etc., In addition, the market is significantly shaped by North America's emphasis on infrastructural development and technology innovation.

By Exports: The growth in trade value and quantity of ferro alloy exports in 2023, particularly in China, Brazil, and the US, can be attributed to these regions' pivotal roles in the steelmaking industry and the continuous expansion of sectors requiring high-

quality steel. For instance, China, the largest consumer and producer of steel globally, relies heavily on ferro alloys to meet its industrial needs. China's infrastructure projects, construction boom, and manufacturing demand have significantly driven its need for ferro alloys, resulting in an increase in export trade values. Similarly, the US also plays a significant role in the ferro alloys market, with the steel industry being a major consumer of these alloys. While the US imports a significant portion of its ferro alloys, it also has a growing export market, particularly for niche ferro alloys utilized in advanced steel applications. The rise in US ferro alloy exports can be linked to increasing demand in the defense, automotive, and construction sectors, where advanced steel materials are essential. Moreover, the US maintains a steady production base for specific ferro alloys, further contributing to its role as an exporter.

By Imports: The fluctuations in ferro alloy imports trade value and quantity in 2022, particularly in China, Japan, and the European Union, reflect the evolving economic conditions, industrial demand, and regional priorities. In China, both the trade value and quantity of ferro alloy imports showed a declining trend. This decline can largely be attributed to a slowdown in China's industrial growth due to factors like stringent COVID-19 restrictions and weakened global demand for Chinese exports. Japan, on the other hand, experienced an increase in both the trade value and quantity of ferro alloy imports in 2022. Japan is one of the world's largest steel producers, with robust demand for specialized steels in industries like automotive manufacturing, shipbuilding, and electronics. The increasing demand for ferro alloys aligns with Japan's push to revive industrial production post-pandemic, especially given its role as a significant exporter of high-quality steel products. Moreover, The European Union saw a unique trend in 2022, with trade values increasing while import quantities decreased. This was primarily due to inflation and rising energy costs, which drove up the prices of imported goods, including ferro alloys. European steelmakers faced higher production costs, necessitating a focus on sourcing high-quality ferro alloys even as overall consumption remained cautious.

Market Dynamics:

Growth Drivers: The global ferroalloy market has been rapidly growing over the past few years, due to factors such as growing steel production, expansion of automotive industry, growing construction spending, rising demand for renewable energy, supportive government policies and incentives, etc. 2024. Growing construction spending worldwide is significantly boosting the ferroalloy market, as ferroalloys are essential in producing high-strength and corrosion-resistant steel used in various construction applications. Ferroalloys like ferromanganese are crucial in manufacturing

structural steel and reinforcing bars (rebar) to ensure durability and stability in buildings, bridges, and infrastructure projects. Also, the global push toward reducing carbon emissions has led to significant investments in renewable energy projects, spurring demand for high-performance, corrosion-resistant steel that ensures the long operational life of renewable installations. Wind turbines, for example, utilize vast amounts of steel to construct tall towers and heavy-duty blades, all of which require ferroalloys to achieve the desired strength and flexibility.

Challenges: However, the global ferroalloy market growth would be negatively impacted by various challenges such as, shortage of raw materials, competition from substitute products, etc. Competition from substitute products is a significant challenge hindering the growth of the ferroalloy market. Various alternative materials, such as aluminum, titanium alloys, and composite materials, are increasingly being adopted in industries like automotive, aerospace, and construction due to their favorable properties, including lightweight characteristics and corrosion resistance. For example, aluminum is often preferred in vehicle manufacturing because it offers weight savings that enhance fuel efficiency and performance, reducing the demand for traditional steel alloys that rely on ferroalloys for their production.

Trends: The global ferroalloy market is projected to grow at a fast pace during the forecasted period, owing to, rising demand of electric vehicles, technological advancements in alloy production, growing emphasis on customized alloys and special ferroalloys, increasing focus on green steel and eco-friendly production processes, increasing recycling and resource efficiency, etc. The rising demand for electric vehicles (EVs) is poised to significantly contribute to the growth of the ferroalloy market as automakers increasingly seek lightweight and high-strength materials to enhance vehicle efficiency and performance. Ferroalloys, such as ferrovanadium and ferrosilicon, are essential in producing advanced high-strength steel and aluminum alloys used in EV manufacturing. In addition, the increasing emphasis on green steel and eco-friendly production processes is poised to significantly benefit the ferroalloy market in the forthcoming years. As global concerns regarding climate change and environmental sustainability intensify, industries are shifting toward low-carbon and sustainable practices. Green steel, produced with minimal environmental impact, heavily relies on ferroalloys to enhance the performance and mechanical properties of the steel without compromising sustainability goals. The adoption of electric arc furnaces, which utilize renewable energy sources, significantly reduces the carbon footprint associated with steel production, creating a substantial demand for ferroalloys that are integral to this process.

Impact Analysis of COVID-19 and Way Forward:

COVID-19 brought in many changes in the world in terms of reduced productivity, loss of life, business closures, closing down of factories and organizations, and shift to an online mode of work. The growth of global ferroalloy market was negatively impacted during the period 2019-2020. Ferro alloys, which are critical in steel production, faced a decline in demand due to the slowdown in major end-use industries such as construction, automotive, and infrastructure, all of which were severely affected by lockdowns & reduced economic activity. During 2020, the market witnessed a sharp decline in production and consumption, as many steel plants and manufacturing units were forced to halt or reduce operations due to government-imposed restrictions.

Competitive Landscape:

The global ferroalloys market is fragmented, with large number of companies, ranging from established brands to smaller regional players and niche manufacturers catering to the industry demand. The key players of the market are:

Tata Group (Tata Steel)
Glencore
Steel Authority of India Limited (SAIL)
OM Holdings Ltd.
ArcelorMittal
Jindal Stainless Limited
Nava Limited
Pertama Ferroalloys Sdn Bhd
Saudi National Committee for Steel Industry (Gulf Ferro Alloys Company)
Belmont Metals Inc.
Malcolm G. Stevens, Inc.
DS Alloyd
Sakura Ferroalloys Sdn Bhd

The market has high concentration of ferroalloy producers located in India and China, and since the industry is highly capital and energy intensive, the market entry barriers are high for new players entering into the market. Most of the businesses are investing substantially in R&D activities to expand their product portfolio and increase their global market share. In order to stay competitive, major players in the market are adopting a variety of competitive strategies, such as geographical expansion, and mergers and acquisitions of smaller brands and domestic companies, to accommodate emerging

markets and expand their geographical footprint. For instance, on March 30, 2022, Tata Steel Limited announced that the company has executed an Asset Transfer Agreement with Stork Ferro and Mineral Industries Private Limited ('SFML') for acquisition of itemized assets to produce ferro alloys.

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