

Superalloys Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global superalloys market size reached US\$ 5.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.3 Billion by 2028, exhibiting a growth rate (CAGR) of 5.9% during 2023-2028.

Superalloys are non-ferrous alloys with excellent heat-resistant properties, which retain their stiffness, strength, toughness, and surface stability at extreme temperatures. They are produced through two-phase heat treatment, including vacuum induction melting, investment casting, powder metallurgy, and secondary melting, such as vacuum arc re-melting or electro slag re-melting. They exhibit good mechanical strength, creep resistance and can withstand oxidation and corrosion when used at elevated temperatures in commercial and military jet engines. As a result, superalloys are extensively used in the chemical and petrochemical, aerospace, and oil and gas industries. They also find application in auxiliary power units, power turbines, defense systems, and locomotive engines.

Superalloys Market Trends:

A significant rise in the aviation industry, along with the increasing utilization of superalloys in manufacturing jet engines, represents one of the key factors positively influencing the market. It can also be attributed to the rising traction of superalloys on account of their operational efficiency and minimal environmental emissions. Apart from this, the escalating demand for passenger and commercial automobiles with robust engines across the globe is driving the market. The expanding use of high-performance alloys in turbochargers, exhaust valves, ignition prechamber, exhaust gas cleaner

fasteners, and nozzles of vehicles is also offering a favorable market outlook. Furthermore, the increasing energy crisis worldwide is catalyzing the demand for power generation using nuclear power plants, which, in turn, is offering lucrative growth opportunities to industry investors. Additionally, the rising use of high-performance alloys in the oil and gas industry for onshore and offshore exploration, drilling, and production activities is augmenting the market growth. Moreover, continuous developments in the aluminum and magnesium mining process and a considerable rise in the extraction of metals used for alloying are propelling the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global superalloys market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on base material and application.

Breakup by Base Material:

Nickel-Based

Iron-Based

Cobalt-Based

Breakup by Application:

Aerospace

Commercial and Cargo

Business

Military

Rotary

Industrial Gas Turbine

Electrical

Mechanical

Automotive

Oil and Gas

Industrial

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Allegheny Technologies Inc, AMG Superalloys, Aperam S.A., Cannon-Muskegon Corporation, Carpenter Technology Corporation, Doncasters Group, Haynes International Inc, IHI Corporation, IMET Alloys, Mishra Dhatu Nigam Limited, Special Metals Corporation and Western Australian Specialty Alloys (Precision Castparts Corp.).

Key Questions Answered in This Report:

How has the global superalloys market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global superalloys market?

What are the key regional markets?

What is the breakup of the market based on the base material?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global superalloys market and who are the key players?

What is the degree of competition in the industry?

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