

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

Market Report | 2023-10-15 | 139 pages | IMARC Group

AVAILABLE LICENSES:

- Electronic (PDF) Single User \$2499.00
- Five User Licence \$3499.00
- Enterprisewide License \$4499.00

Report description:

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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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?

Table of Contents:

1	Preface
2	Scope and Methodology
2.1	Objectives of the Study
2.2	Stakeholders
2.3	Data Sources
2.3.1	Primary Sources
2.3.2	Secondary Sources
2.4	Market Estimation
2.4.1	Bottom-Up Approach
2.4.2	Top-Down Approach
2.5	Forecasting Methodology
3	Executive Summary
4	Introduction
4.1	Overview
4.2	Key Industry Trends
5	Global Superalloys Market
5.1	Market Overview
5.2	Market Performance
5.3	Impact of COVID-19
5.4	Market Forecast
6	Market Breakup by Base Material

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.1Nickel-Based
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2Iron-Based
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3Cobalt-Based
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
- 7 Market Breakup by Application
 - 7.1Aerospace
 - 7.1.1 Market Trends
 - 7.1.2 Key Segments
 - 7.1.2.1 Commercial and Cargo
 - 7.1.2.2 Business
 - 7.1.2.3 Military
 - 7.1.2.4 Rotary
 - 7.1.3 Market Forecast
 - 7.2Industrial Gas Turbine
 - 7.2.1 Market Trends
 - 7.2.2 Key Segments
 - 7.2.2.1 Electrical
 - 7.2.2.2 Mechanical
 - 7.2.3 Market Forecast
 - 7.3Automotive
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4Oil and Gas
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
 - 7.5Industrial
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
 - 7.6Others
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
- 8 Market Breakup by Region
 - 8.1North America
 - 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast
 - 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast
 - 8.2Asia-Pacific
 - 8.2.1 China
 - 8.2.1.1 Market Trends

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.2.1.2 Market Forecast
- 8.2.2 Japan
 - 8.2.2.1 Market Trends
 - 8.2.2.2 Market Forecast
- 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.4.2.2 Market Forecast
- 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast
- 9 SWOT Analysis
 - 9.1 Overview
 - 9.2 Strengths
 - 9.3 Weaknesses
 - 9.4 Opportunities
 - 9.5 Threats
- 10 Value Chain Analysis
- 11 Porters Five Forces Analysis
 - 11.1 Overview
 - 11.2 Bargaining Power of Buyers
 - 11.3 Bargaining Power of Suppliers
 - 11.4 Degree of Competition
 - 11.5 Threat of New Entrants
 - 11.6 Threat of Substitutes
- 12 Price Analysis
- 13 Competitive Landscape
 - 13.1 Market Structure
 - 13.2 Key Players
 - 13.3 Profiles of Key Players
 - 13.3.1 Allegheny Technologies Inc
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.1.3 Financials
 - 13.3.1.4 SWOT Analysis
 - 13.3.2 AMG Superalloys
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.3 Aperam S.A.
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.3.3 Financials
 - 13.3.4 Cannon-Muskegon Corporation
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.5 Carpenter Technology Corporation
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.5.4 SWOT Analysis

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 13.3.6Doncasters Group
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
- 13.3.7Haynes International Inc
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8IHI Corporation
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis
- 13.3.9IMET Alloys
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
- 13.3.10Mishra Dhatu Nigam Limited
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 Financials
- 13.3.11Special Metals Corporation
 - 13.3.11.1 Company Overview
 - 13.3.11.2 Product Portfolio
- 13.3.12Western Australian Specialty Alloys (Precision Castparts Corp.)
 - 13.3.12.1 Company Overview
 - 13.3.12.2 Product Portfolio

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

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

Market Report | 2023-10-15 | 139 pages | IMARC Group

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Electronic (PDF) Single User	\$2499.00
	Five User Licence	\$3499.00
	Enterprisewide License	\$4499.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-06-26"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com