

High Performance Alloys Market Report by Product (Non-ferrous Metal, Platinum Group Metal, Refractory, Superalloys), Material (Aluminum, Titanium, Magnesium, and Others), Application (Aerospace, Industrial Gas Turbine, Industrial, Automotive, Oil and Gas, Electrical and Electronics, and Others), and Region 2024-2032

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Abstracts

The global high performance alloys market size reached US\$ 9.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 13.3 Billion by 2032, exhibiting a growth rate (CAGR) of 3.8% during 2024-2032.

Also known as superalloys, high performance alloys have an austenitic face-centered cubic crystal structure with cobalt, nickel, or nickel-iron as the base alloying element. They exhibit excellent mechanical strength, superior functionality, and high corrosion and heat resistance compared to stainless steel. As a result, they find applications in atomic power, semiconductors, desalination, and solar and fuel cells around the world.

High Performance Alloys Market Trends:

A considerable rise in the use of high performance alloys in the defense sector for enhancing operational efficiency represents one of the primary factors positively influencing the market. Moreover, there is an increase in the demand for next-generation aircraft and building fuel nozzles of jet engines in the aerospace industry. This, in turn, is positively driving the sales of high performance alloys across the globe. Additionally, these alloys are used in industrial gas turbines as they help increase the overall performance. Furthermore, the market is driven by the rising utilization of high

performance alloys in the oil and gas industry for onshore and offshore exploration, drilling, and production activities. Besides this, due to the rising environmental concerns and stringent regulations implemented by governing agencies of numerous countries, there is a significant rise in the demand for fuel-efficient vehicles. Consequently, leading vehicle manufacturers are relying on high-performance alloys for reducing the overall weight of the vehicle. Other major factors anticipated to support the growth of the market include developments in aluminum and magnesium mining and increasing extraction of metals used for alloying.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global high performance alloys market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product, material and application.

Breakup by Product:

Non-ferrous Metal

Platinum Group Metal

Refractory

Superalloys

Breakup by Material:

Aluminum

Titanium

Magnesium

Others

Breakup by Application:

Aerospace

Industrial Gas Turbine

Industrial

Automotive

Oil and Gas

Electrical and Electronics

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 Alcoa Corporation, Allegheny Technologies Incorporated, Aperam S.A., Carpenter Technology Corporation, Haynes International Inc., Hitachi Metals Ltd. (Hitachi Ltd.), Outokumpu Oyj, Precision Castparts Corp. (Berkshire Hathaway Inc.), The Timken Company, ThyssenKrupp AG and VSMPO-AVISMA Corporation.

Key Questions Answered in This Report

1. What was the size of the global high performance alloys market in 2023?

2. What is the expected growth rate of the global high performance alloys market during 2024-2032?
3. What has been the impact of COVID-19 on the global high performance alloys market?
4. What are the key factors driving the global high performance alloys market?
5. What is the breakup of the global high performance alloys market based on the product?
6. What is the breakup of the global high performance alloys market based on the material?
7. What is the breakup of the global high performance alloys market based on the application?
8. What are the key regions in the global high performance alloys market?
9. Who are the key players/companies in the global high performance alloys market?

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 HIGH PERFORMANCE ALLOYS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT

- 6.1 Non-ferrous Metal
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Platinum Group Metal
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Refractory

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Superalloys
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY MATERIAL

- 7.1 Aluminum
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Titanium
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Magnesium
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Aerospace
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Industrial Gas Turbine
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Industrial
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Automotive
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Oil and Gas
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast
- 8.6 Electrical and Electronics

8.6.1 Market Trends

8.6.2 Market Forecast

8.7 Others

8.7.1 Market Trends

8.7.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

- 9.3.1.1 Market Trends
- 9.3.1.2 Market Forecast
- 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Alcoa Corporation

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Allegheny Technologies Incorporated

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.2.4 SWOT Analysis

14.3.3 Aperam S.A.

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.4 Carpenter Technology Corporation

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

- 14.3.4.3 Financials
- 14.3.4.4 SWOT Analysis
- 14.3.5 Haynes International Inc.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 Hitachi Metals Ltd. (Hitachi Ltd.)
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 Outokumpu Oyj
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 Precision Castparts Corp. (Berkshire Hathaway Inc.)
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 The Timken Company
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 ThyssenKrupp AG
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 VSMPO-AVISMA Corporation
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: High Performance Alloys Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: High Performance Alloys Market Forecast: Breakup by Product (in Million US\$), 2024-2032

Table 3: Global: High Performance Alloys Market Forecast: Breakup by Material (in Million US\$), 2024-2032

Table 4: Global: High Performance Alloys Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: High Performance Alloys Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: High Performance Alloys Market: Competitive Structure

Table 7: Global: High Performance Alloys Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: High Performance Alloys Market: Major Drivers and Challenges

Figure 2: Global: High Performance Alloys Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: High Performance Alloys Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: High Performance Alloys Market: Breakup by Product (in %), 2023

Figure 5: Global: High Performance Alloys Market: Breakup by Material (in %), 2023

Figure 6: Global: High Performance Alloys Market: Breakup by Application (in %), 2023

Figure 7: Global: High Performance Alloys Market: Breakup by Region (in %), 2023

Figure 8: Global: High Performance Alloys (Non-ferrous Metal) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: High Performance Alloys (Non-ferrous Metal) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: High Performance Alloys (Platinum Group Metal) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: High Performance Alloys (Platinum Group Metal) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: High Performance Alloys (Refractory) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: High Performance Alloys (Refractory) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: High Performance Alloys (Superalloys) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: High Performance Alloys (Superalloys) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: High Performance Alloys (Aluminum) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: High Performance Alloys (Aluminum) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: High Performance Alloys (Titanium) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: High Performance Alloys (Titanium) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: High Performance Alloys (Magnesium) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: High Performance Alloys (Magnesium) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: High Performance Alloys (Other Materials) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: High Performance Alloys (Other Materials) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: High Performance Alloys (Aerospace) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: High Performance Alloys (Aerospace) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: High Performance Alloys (Industrial Gas Turbine) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: High Performance Alloys (Industrial Gas Turbine) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: High Performance Alloys (Industrial) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: High Performance Alloys (Industrial) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: High Performance Alloys (Automotive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: High Performance Alloys (Automotive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: High Performance Alloys (Oil and Gas) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: High Performance Alloys (Oil and Gas) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: High Performance Alloys (Electrical and Electronics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: High Performance Alloys (Electrical and Electronics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Global: High Performance Alloys (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Global: High Performance Alloys (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: North America: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: North America: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: United States: High Performance Alloys Market: Sales Value (in Million US\$),

2018 & 2023

Figure 41: United States: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: Canada: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Canada: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Asia-Pacific: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Asia-Pacific: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: China: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: China: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Japan: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Japan: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: India: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: India: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: South Korea: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: South Korea: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Australia: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Australia: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Indonesia: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Indonesia: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Others: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Others: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Europe: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Europe: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: Germany: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: Germany: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: France: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: France: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 66: United Kingdom: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: United Kingdom: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Italy: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Italy: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Spain: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Spain: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Russia: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Russia: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 74: Others: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Others: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Latin America: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: Latin America: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 78: Brazil: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 79: Brazil: High Performance Alloys Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 80: Mexico: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 81: Mexico: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 82: Others: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 83: Others: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 84: Middle East and Africa: High Performance Alloys Market: Sales Value (in Million US\$), 2018 & 2023

Figure 85: Middle East and Africa: High Performance Alloys Market: Breakup by Country (in %), 2023

Figure 86: Middle East and Africa: High Performance Alloys Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Global: High Performance Alloys Industry: SWOT Analysis

Figure 88: Global: High Performance Alloys Industry: Value Chain Analysis

Figure 89: Global: High Performance Alloys Industry: Porter's Five Forces Analysis

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