

# Global Shape Memory Alloys Market Growth 2024-2030

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## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

According to our LPI (LP Information) latest study, the global Shape Memory Alloys market size was valued at US\$ 757.2 million in 2023. With growing demand in downstream market, the Shape Memory Alloys is forecast to a readjusted size of US\$ 1377.2 million by 2030 with a CAGR of 8.9% during review period.

The research report highlights the growth potential of the global Shape Memory Alloys market. Shape Memory Alloys are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Shape Memory Alloys. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Shape Memory Alloys market.

A shape memory alloy (SMA) is an alloy that 'remembers' its original shape and that when deformed returns to its pre-deformed shape when heated. This material is a lightweight, solid-state alternative to conventional actuators such as hydraulic, pneumatic, and motor-based systems. Shape-memory alloys have applications in industries including Automotive, aerospace, and biomedical and robotics. Nickel-titanium alloys have been found to be the most useful of all SMAs. Other shape memory alloys include copper-aluminum-nickel, copper-zinc-aluminum, and iron-manganese-silicon alloys. The generic name for the family of nickel-titanium alloys is Nitinol.

The data in this report include the semi-finished products (bars, Tubes, wire, pipe, etc), components and devices in shape memory alloy.

Global Shape Memory Alloys key players include Nitinol Devices & Components, SAES Getters, G.RAU GmbH & Co. KG, Fort Wayne Metals, ATI Wah-chang, etc. Global top five manufacturers hold a share over 45%.

North America is the largest market, with a share about 45%, followed by Europe, and Japan, both have a share over 30 percent.

In terms of product, Nickel-Titanium is the largest segment, with a share over 75%. And in terms of application, the largest application is Medical Applications, followed by Automotive, Aircraft Applications, Home Appliance, etc.

#### Key Features:

The report on Shape Memory Alloys market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Shape Memory Alloys market. It may include historical data, market segmentation by Type (e.g., Nickel-Titanium, Copper Based), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Shape Memory Alloys market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Shape Memory Alloys market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Shape Memory Alloys industry. This include advancements in Shape Memory Alloys technology, Shape Memory Alloys new entrants, Shape Memory Alloys new investment, and other innovations that are shaping the future of Shape Memory Alloys.

**Downstream Procumbent Preference:** The report can shed light on customer

procumbent behaviour and adoption trends in the Shape Memory Alloys market. It includes factors influencing customer ' purchasing decisions, preferences for Shape Memory Alloys product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Shape Memory Alloys market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Shape Memory Alloys market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Shape Memory Alloys market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Shape Memory Alloys industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Shape Memory Alloys market.

**Market Segmentation:**

Shape Memory Alloys market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Nickel-Titanium

Copper Based

Fe Based

Others

## Segmentation by application

Medical Applications

Aircraft Applications

Automotive

Home Appliance

Others

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Nitinol Devices & Components

SAES Getters

G.RAU GmbH & Co. KG

ATI Wah-chang

Johnson Matthey

Fort Wayne Metals

Furukawa Electric

Nippon Steel & Sumitomo Metal

Nippon Seisen

Metalwerks PMD

Ultimate NiTi Technologies

Dynalloy

Grikin

PEIER Tech

Saite Metal

Smart

Baoji Seabird Metal

GEE

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Shape Memory Alloys market?

What factors are driving Shape Memory Alloys market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Shape Memory Alloys market opportunities vary by end market size?

How does Shape Memory Alloys break out type, application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Shape Memory Alloys Annual Sales 2019-2030
  - 2.1.2 World Current & Future Analysis for Shape Memory Alloys by Geographic Region, 2019, 2023 & 2030
  - 2.1.3 World Current & Future Analysis for Shape Memory Alloys by Country/Region, 2019, 2023 & 2030
- 2.2 Shape Memory Alloys Segment by Type
  - 2.2.1 Nickel-Titanium
  - 2.2.2 Copper Based
  - 2.2.3 Fe Based
  - 2.2.4 Others
- 2.3 Shape Memory Alloys Sales by Type
  - 2.3.1 Global Shape Memory Alloys Sales Market Share by Type (2019-2024)
  - 2.3.2 Global Shape Memory Alloys Revenue and Market Share by Type (2019-2024)
  - 2.3.3 Global Shape Memory Alloys Sale Price by Type (2019-2024)
- 2.4 Shape Memory Alloys Segment by Application
  - 2.4.1 Medical Applications
  - 2.4.2 Aircraft Applications
  - 2.4.3 Automotive
  - 2.4.4 Home Appliance
  - 2.4.5 Others
- 2.5 Shape Memory Alloys Sales by Application
  - 2.5.1 Global Shape Memory Alloys Sale Market Share by Application (2019-2024)
  - 2.5.2 Global Shape Memory Alloys Revenue and Market Share by Application

(2019-2024)

2.5.3 Global Shape Memory Alloys Sale Price by Application (2019-2024)

### **3 GLOBAL SHAPE MEMORY ALLOYS BY COMPANY**

3.1 Global Shape Memory Alloys Breakdown Data by Company

3.1.1 Global Shape Memory Alloys Annual Sales by Company (2019-2024)

3.1.2 Global Shape Memory Alloys Sales Market Share by Company (2019-2024)

3.2 Global Shape Memory Alloys Annual Revenue by Company (2019-2024)

3.2.1 Global Shape Memory Alloys Revenue by Company (2019-2024)

3.2.2 Global Shape Memory Alloys Revenue Market Share by Company (2019-2024)

3.3 Global Shape Memory Alloys Sale Price by Company

3.4 Key Manufacturers Shape Memory Alloys Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Shape Memory Alloys Product Location Distribution

3.4.2 Players Shape Memory Alloys Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

### **4 WORLD HISTORIC REVIEW FOR SHAPE MEMORY ALLOYS BY GEOGRAPHIC REGION**

4.1 World Historic Shape Memory Alloys Market Size by Geographic Region (2019-2024)

4.1.1 Global Shape Memory Alloys Annual Sales by Geographic Region (2019-2024)

4.1.2 Global Shape Memory Alloys Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic Shape Memory Alloys Market Size by Country/Region (2019-2024)

4.2.1 Global Shape Memory Alloys Annual Sales by Country/Region (2019-2024)

4.2.2 Global Shape Memory Alloys Annual Revenue by Country/Region (2019-2024)

4.3 Americas Shape Memory Alloys Sales Growth

4.4 APAC Shape Memory Alloys Sales Growth

4.5 Europe Shape Memory Alloys Sales Growth

4.6 Middle East & Africa Shape Memory Alloys Sales Growth

### **5 AMERICAS**



- 5.1 Americas Shape Memory Alloys Sales by Country
  - 5.1.1 Americas Shape Memory Alloys Sales by Country (2019-2024)
  - 5.1.2 Americas Shape Memory Alloys Revenue by Country (2019-2024)
- 5.2 Americas Shape Memory Alloys Sales by Type
- 5.3 Americas Shape Memory Alloys Sales by Application
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

- 6.1 APAC Shape Memory Alloys Sales by Region
  - 6.1.1 APAC Shape Memory Alloys Sales by Region (2019-2024)
  - 6.1.2 APAC Shape Memory Alloys Revenue by Region (2019-2024)
- 6.2 APAC Shape Memory Alloys Sales by Type
- 6.3 APAC Shape Memory Alloys Sales by Application
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe Shape Memory Alloys by Country
  - 7.1.1 Europe Shape Memory Alloys Sales by Country (2019-2024)
  - 7.1.2 Europe Shape Memory Alloys Revenue by Country (2019-2024)
- 7.2 Europe Shape Memory Alloys Sales by Type
- 7.3 Europe Shape Memory Alloys Sales by Application
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

### 8.1 Middle East & Africa Shape Memory Alloys by Country

#### 8.1.1 Middle East & Africa Shape Memory Alloys Sales by Country (2019-2024)

#### 8.1.2 Middle East & Africa Shape Memory Alloys Revenue by Country (2019-2024)

### 8.2 Middle East & Africa Shape Memory Alloys Sales by Type

### 8.3 Middle East & Africa Shape Memory Alloys Sales by Application

### 8.4 Egypt

### 8.5 South Africa

### 8.6 Israel

### 8.7 Turkey

### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

### 9.1 Market Drivers & Growth Opportunities

### 9.2 Market Challenges & Risks

### 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

### 10.1 Raw Material and Suppliers

### 10.2 Manufacturing Cost Structure Analysis of Shape Memory Alloys

### 10.3 Manufacturing Process Analysis of Shape Memory Alloys

### 10.4 Industry Chain Structure of Shape Memory Alloys

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 11.1 Sales Channel

#### 11.1.1 Direct Channels

#### 11.1.2 Indirect Channels

### 11.2 Shape Memory Alloys Distributors

### 11.3 Shape Memory Alloys Customer

## **12 WORLD FORECAST REVIEW FOR SHAPE MEMORY ALLOYS BY GEOGRAPHIC REGION**

### 12.1 Global Shape Memory Alloys Market Size Forecast by Region

#### 12.1.1 Global Shape Memory Alloys Forecast by Region (2025-2030)

- 12.1.2 Global Shape Memory Alloys Annual Revenue Forecast by Region (2025-2030)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Shape Memory Alloys Forecast by Type
- 12.7 Global Shape Memory Alloys Forecast by Application

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Nitinol Devices & Components

- 13.1.1 Nitinol Devices & Components Company Information
- 13.1.2 Nitinol Devices & Components Shape Memory Alloys Product Portfolios and Specifications
- 13.1.3 Nitinol Devices & Components Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.1.4 Nitinol Devices & Components Main Business Overview
- 13.1.5 Nitinol Devices & Components Latest Developments

### 13.2 SAES Getters

- 13.2.1 SAES Getters Company Information
- 13.2.2 SAES Getters Shape Memory Alloys Product Portfolios and Specifications
- 13.2.3 SAES Getters Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.2.4 SAES Getters Main Business Overview
- 13.2.5 SAES Getters Latest Developments

### 13.3 G.RAU GmbH & Co. KG

- 13.3.1 G.RAU GmbH & Co. KG Company Information
- 13.3.2 G.RAU GmbH & Co. KG Shape Memory Alloys Product Portfolios and Specifications
- 13.3.3 G.RAU GmbH & Co. KG Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.3.4 G.RAU GmbH & Co. KG Main Business Overview
- 13.3.5 G.RAU GmbH & Co. KG Latest Developments

### 13.4 ATI Wah-chang

- 13.4.1 ATI Wah-chang Company Information
- 13.4.2 ATI Wah-chang Shape Memory Alloys Product Portfolios and Specifications
- 13.4.3 ATI Wah-chang Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.4.4 ATI Wah-chang Main Business Overview

- 13.4.5 ATI Wah-chang Latest Developments
- 13.5 Johnson Matthey
  - 13.5.1 Johnson Matthey Company Information
  - 13.5.2 Johnson Matthey Shape Memory Alloys Product Portfolios and Specifications
  - 13.5.3 Johnson Matthey Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.5.4 Johnson Matthey Main Business Overview
  - 13.5.5 Johnson Matthey Latest Developments
- 13.6 Fort Wayne Metals
  - 13.6.1 Fort Wayne Metals Company Information
  - 13.6.2 Fort Wayne Metals Shape Memory Alloys Product Portfolios and Specifications
  - 13.6.3 Fort Wayne Metals Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.6.4 Fort Wayne Metals Main Business Overview
  - 13.6.5 Fort Wayne Metals Latest Developments
- 13.7 Furukawa Electric
  - 13.7.1 Furukawa Electric Company Information
  - 13.7.2 Furukawa Electric Shape Memory Alloys Product Portfolios and Specifications
  - 13.7.3 Furukawa Electric Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.7.4 Furukawa Electric Main Business Overview
  - 13.7.5 Furukawa Electric Latest Developments
- 13.8 Nippon Steel & Sumitomo Metal
  - 13.8.1 Nippon Steel & Sumitomo Metal Company Information
  - 13.8.2 Nippon Steel & Sumitomo Metal Shape Memory Alloys Product Portfolios and Specifications
  - 13.8.3 Nippon Steel & Sumitomo Metal Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.8.4 Nippon Steel & Sumitomo Metal Main Business Overview
  - 13.8.5 Nippon Steel & Sumitomo Metal Latest Developments
- 13.9 Nippon Seisen
  - 13.9.1 Nippon Seisen Company Information
  - 13.9.2 Nippon Seisen Shape Memory Alloys Product Portfolios and Specifications
  - 13.9.3 Nippon Seisen Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.9.4 Nippon Seisen Main Business Overview
  - 13.9.5 Nippon Seisen Latest Developments
- 13.10 Metalwerks PMD
  - 13.10.1 Metalwerks PMD Company Information

- 13.10.2 Metalwerks PMD Shape Memory Alloys Product Portfolios and Specifications
- 13.10.3 Metalwerks PMD Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.10.4 Metalwerks PMD Main Business Overview
- 13.10.5 Metalwerks PMD Latest Developments
- 13.11 Ultimate NiTi Technologies
  - 13.11.1 Ultimate NiTi Technologies Company Information
  - 13.11.2 Ultimate NiTi Technologies Shape Memory Alloys Product Portfolios and Specifications
  - 13.11.3 Ultimate NiTi Technologies Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.11.4 Ultimate NiTi Technologies Main Business Overview
  - 13.11.5 Ultimate NiTi Technologies Latest Developments
- 13.12 Dynalloy
  - 13.12.1 Dynalloy Company Information
  - 13.12.2 Dynalloy Shape Memory Alloys Product Portfolios and Specifications
  - 13.12.3 Dynalloy Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.12.4 Dynalloy Main Business Overview
  - 13.12.5 Dynalloy Latest Developments
- 13.13 Grikin
  - 13.13.1 Grikin Company Information
  - 13.13.2 Grikin Shape Memory Alloys Product Portfolios and Specifications
  - 13.13.3 Grikin Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.13.4 Grikin Main Business Overview
  - 13.13.5 Grikin Latest Developments
- 13.14 PEIER Tech
  - 13.14.1 PEIER Tech Company Information
  - 13.14.2 PEIER Tech Shape Memory Alloys Product Portfolios and Specifications
  - 13.14.3 PEIER Tech Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.14.4 PEIER Tech Main Business Overview
  - 13.14.5 PEIER Tech Latest Developments
- 13.15 Saite Metal
  - 13.15.1 Saite Metal Company Information
  - 13.15.2 Saite Metal Shape Memory Alloys Product Portfolios and Specifications
  - 13.15.3 Saite Metal Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)

13.15.4 Saite Metal Main Business Overview

13.15.5 Saite Metal Latest Developments

13.16 Smart

13.16.1 Smart Company Information

13.16.2 Smart Shape Memory Alloys Product Portfolios and Specifications

13.16.3 Smart Shape Memory Alloys Sales, Revenue, Price and Gross Margin

(2019-2024)

13.16.4 Smart Main Business Overview

13.16.5 Smart Latest Developments

13.17 Baoji Seabird Metal

13.17.1 Baoji Seabird Metal Company Information

13.17.2 Baoji Seabird Metal Shape Memory Alloys Product Portfolios and

Specifications

13.17.3 Baoji Seabird Metal Shape Memory Alloys Sales, Revenue, Price and Gross Margin (2019-2024)

13.17.4 Baoji Seabird Metal Main Business Overview

13.17.5 Baoji Seabird Metal Latest Developments

13.18 GEE

13.18.1 GEE Company Information

13.18.2 GEE Shape Memory Alloys Product Portfolios and Specifications

13.18.3 GEE Shape Memory Alloys Sales, Revenue, Price and Gross Margin

(2019-2024)

13.18.4 GEE Main Business Overview

13.18.5 GEE Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Shape Memory Alloys Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Shape Memory Alloys Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Nickel-Titanium

Table 4. Major Players of Copper Based

Table 5. Major Players of Fe Based

Table 6. Major Players of Others

Table 7. Global Shape Memory Alloys Sales by Type (2019-2024) & (Tonnes)

Table 8. Global Shape Memory Alloys Sales Market Share by Type (2019-2024)

Table 9. Global Shape Memory Alloys Revenue by Type (2019-2024) & (\$ million)

Table 10. Global Shape Memory Alloys Revenue Market Share by Type (2019-2024)

Table 11. Global Shape Memory Alloys Sale Price by Type (2019-2024) & (USD/Tonne)

Table 12. Global Shape Memory Alloys Sales by Application (2019-2024) & (Tonnes)

Table 13. Global Shape Memory Alloys Sales Market Share by Application (2019-2024)

Table 14. Global Shape Memory Alloys Revenue by Application (2019-2024)

Table 15. Global Shape Memory Alloys Revenue Market Share by Application (2019-2024)

Table 16. Global Shape Memory Alloys Sale Price by Application (2019-2024) & (USD/Tonne)

Table 17. Global Shape Memory Alloys Sales by Company (2019-2024) & (Tonnes)

Table 18. Global Shape Memory Alloys Sales Market Share by Company (2019-2024)

Table 19. Global Shape Memory Alloys Revenue by Company (2019-2024) (\$ Millions)

Table 20. Global Shape Memory Alloys Revenue Market Share by Company (2019-2024)

Table 21. Global Shape Memory Alloys Sale Price by Company (2019-2024) & (USD/Tonne)

Table 22. Key Manufacturers Shape Memory Alloys Producing Area Distribution and Sales Area

Table 23. Players Shape Memory Alloys Products Offered

Table 24. Shape Memory Alloys Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 25. New Products and Potential Entrants

Table 26. Mergers & Acquisitions, Expansion

Table 27. Global Shape Memory Alloys Sales by Geographic Region (2019-2024) &



(Tonnes)

Table 28. Global Shape Memory Alloys Sales Market Share Geographic Region (2019-2024)

Table 29. Global Shape Memory Alloys Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 30. Global Shape Memory Alloys Revenue Market Share by Geographic Region (2019-2024)

Table 31. Global Shape Memory Alloys Sales by Country/Region (2019-2024) & (Tonnes)

Table 32. Global Shape Memory Alloys Sales Market Share by Country/Region (2019-2024)

Table 33. Global Shape Memory Alloys Revenue by Country/Region (2019-2024) & (\$ millions)

Table 34. Global Shape Memory Alloys Revenue Market Share by Country/Region (2019-2024)

Table 35. Americas Shape Memory Alloys Sales by Country (2019-2024) & (Tonnes)

Table 36. Americas Shape Memory Alloys Sales Market Share by Country (2019-2024)

Table 37. Americas Shape Memory Alloys Revenue by Country (2019-2024) & (\$ Millions)

Table 38. Americas Shape Memory Alloys Revenue Market Share by Country (2019-2024)

Table 39. Americas Shape Memory Alloys Sales by Type (2019-2024) & (Tonnes)

Table 40. Americas Shape Memory Alloys Sales by Application (2019-2024) & (Tonnes)

Table 41. APAC Shape Memory Alloys Sales by Region (2019-2024) & (Tonnes)

Table 42. APAC Shape Memory Alloys Sales Market Share by Region (2019-2024)

Table 43. APAC Shape Memory Alloys Revenue by Region (2019-2024) & (\$ Millions)

Table 44. APAC Shape Memory Alloys Revenue Market Share by Region (2019-2024)

Table 45. APAC Shape Memory Alloys Sales by Type (2019-2024) & (Tonnes)

Table 46. APAC Shape Memory Alloys Sales by Application (2019-2024) & (Tonnes)

Table 47. Europe Shape Memory Alloys Sales by Country (2019-2024) & (Tonnes)

Table 48. Europe Shape Memory Alloys Sales Market Share by Country (2019-2024)

Table 49. Europe Shape Memory Alloys Revenue by Country (2019-2024) & (\$ Millions)

Table 50. Europe Shape Memory Alloys Revenue Market Share by Country (2019-2024)

Table 51. Europe Shape Memory Alloys Sales by Type (2019-2024) & (Tonnes)

Table 52. Europe Shape Memory Alloys Sales by Application (2019-2024) & (Tonnes)

Table 53. Middle East & Africa Shape Memory Alloys Sales by Country (2019-2024) & (Tonnes)

Table 54. Middle East & Africa Shape Memory Alloys Sales Market Share by Country



(2019-2024)

Table 55. Middle East & Africa Shape Memory Alloys Revenue by Country (2019-2024) & (\$ Millions)

Table 56. Middle East & Africa Shape Memory Alloys Revenue Market Share by Country (2019-2024)

Table 57. Middle East & Africa Shape Memory Alloys Sales by Type (2019-2024) & (Tonnes)

Table 58. Middle East & Africa Shape Memory Alloys Sales by Application (2019-2024) & (Tonnes)

Table 59. Key Market Drivers & Growth Opportunities of Shape Memory Alloys

Table 60. Key Market Challenges & Risks of Shape Memory Alloys

Table 61. Key Industry Trends of Shape Memory Alloys

Table 62. Shape Memory Alloys Raw Material

Table 63. Key Suppliers of Raw Materials

Table 64. Shape Memory Alloys Distributors List

Table 65. Shape Memory Alloys Customer List

Table 66. Global Shape Memory Alloys Sales Forecast by Region (2025-2030) & (Tonnes)

Table 67. Global Shape Memory Alloys Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 68. Americas Shape Memory Alloys Sales Forecast by Country (2025-2030) & (Tonnes)

Table 69. Americas Shape Memory Alloys Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 70. APAC Shape Memory Alloys Sales Forecast by Region (2025-2030) & (Tonnes)

Table 71. APAC Shape Memory Alloys Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 72. Europe Shape Memory Alloys Sales Forecast by Country (2025-2030) & (Tonnes)

Table 73. Europe Shape Memory Alloys Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 74. Middle East & Africa Shape Memory Alloys Sales Forecast by Country (2025-2030) & (Tonnes)

Table 75. Middle East & Africa Shape Memory Alloys Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 76. Global Shape Memory Alloys Sales Forecast by Type (2025-2030) & (Tonnes)

Table 77. Global Shape Memory Alloys Revenue Forecast by Type (2025-2030) & (\$

Millions)

Table 78. Global Shape Memory Alloys Sales Forecast by Application (2025-2030) & (Tonnes)

Table 79. Global Shape Memory Alloys Revenue Forecast by Application (2025-2030) & (\$ Millions)

Table 80. Nitinol Devices & Components Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 81. Nitinol Devices & Components Shape Memory Alloys Product Portfolios and Specifications

Table 82. Nitinol Devices & Components Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 83. Nitinol Devices & Components Main Business

Table 84. Nitinol Devices & Components Latest Developments

Table 85. SAES Getters Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 86. SAES Getters Shape Memory Alloys Product Portfolios and Specifications

Table 87. SAES Getters Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 88. SAES Getters Main Business

Table 89. SAES Getters Latest Developments

Table 90. G.RAU GmbH & Co. KG Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 91. G.RAU GmbH & Co. KG Shape Memory Alloys Product Portfolios and Specifications

Table 92. G.RAU GmbH & Co. KG Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 93. G.RAU GmbH & Co. KG Main Business

Table 94. G.RAU GmbH & Co. KG Latest Developments

Table 95. ATI Wah-chang Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 96. ATI Wah-chang Shape Memory Alloys Product Portfolios and Specifications

Table 97. ATI Wah-chang Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 98. ATI Wah-chang Main Business

Table 99. ATI Wah-chang Latest Developments

Table 100. Johnson Matthey Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 101. Johnson Matthey Shape Memory Alloys Product Portfolios and Specifications

Table 102. Johnson Matthey Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 103. Johnson Matthey Main Business

Table 104. Johnson Matthey Latest Developments

Table 105. Fort Wayne Metals Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 106. Fort Wayne Metals Shape Memory Alloys Product Portfolios and Specifications

Table 107. Fort Wayne Metals Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 108. Fort Wayne Metals Main Business

Table 109. Fort Wayne Metals Latest Developments

Table 110. Furukawa Electric Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 111. Furukawa Electric Shape Memory Alloys Product Portfolios and Specifications

Table 112. Furukawa Electric Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 113. Furukawa Electric Main Business

Table 114. Furukawa Electric Latest Developments

Table 115. Nippon Steel & Sumitomo Metal Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 116. Nippon Steel & Sumitomo Metal Shape Memory Alloys Product Portfolios and Specifications

Table 117. Nippon Steel & Sumitomo Metal Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 118. Nippon Steel & Sumitomo Metal Main Business

Table 119. Nippon Steel & Sumitomo Metal Latest Developments

Table 120. Nippon Seisen Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 121. Nippon Seisen Shape Memory Alloys Product Portfolios and Specifications

Table 122. Nippon Seisen Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 123. Nippon Seisen Main Business

Table 124. Nippon Seisen Latest Developments

Table 125. Metalwerks PMD Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 126. Metalwerks PMD Shape Memory Alloys Product Portfolios and Specifications

Table 127. Metalwerks PMD Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 128. Metalwerks PMD Main Business

Table 129. Metalwerks PMD Latest Developments

Table 130. Ultimate NiTi Technologies Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 131. Ultimate NiTi Technologies Shape Memory Alloys Product Portfolios and Specifications

Table 132. Ultimate NiTi Technologies Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 133. Ultimate NiTi Technologies Main Business

Table 134. Ultimate NiTi Technologies Latest Developments

Table 135. Dynalloy Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 136. Dynalloy Shape Memory Alloys Product Portfolios and Specifications

Table 137. Dynalloy Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 138. Dynalloy Main Business

Table 139. Dynalloy Latest Developments

Table 140. Grikin Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 141. Grikin Shape Memory Alloys Product Portfolios and Specifications

Table 142. Grikin Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 143. Grikin Main Business

Table 144. Grikin Latest Developments

Table 145. PEIER Tech Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 146. PEIER Tech Shape Memory Alloys Product Portfolios and Specifications

Table 147. PEIER Tech Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 148. PEIER Tech Main Business

Table 149. PEIER Tech Latest Developments

Table 150. Saite Metal Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 151. Saite Metal Shape Memory Alloys Product Portfolios and Specifications

Table 152. Saite Metal Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 153. Saite Metal Main Business

Table 154. Saite Metal Latest Developments

Table 155. Smart Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 156. Smart Shape Memory Alloys Product Portfolios and Specifications

Table 157. Smart Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 158. Smart Main Business

Table 159. Smart Latest Developments

Table 160. Baoji Seabird Metal Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 161. Baoji Seabird Metal Shape Memory Alloys Product Portfolios and Specifications

Table 162. Baoji Seabird Metal Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 163. Baoji Seabird Metal Main Business

Table 164. Baoji Seabird Metal Latest Developments

Table 165. GEE Basic Information, Shape Memory Alloys Manufacturing Base, Sales Area and Its Competitors

Table 166. GEE Shape Memory Alloys Product Portfolios and Specifications

Table 167. GEE Shape Memory Alloys Sales (Tonnes), Revenue (\$ Million), Price (USD/Tonne) and Gross Margin (2019-2024)

Table 168. GEE Main Business

Table 169. GEE Latest Developments



## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Shape Memory Alloys
- Figure 2. Shape Memory Alloys Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Shape Memory Alloys Sales Growth Rate 2019-2030 (Tonnes)
- Figure 7. Global Shape Memory Alloys Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Shape Memory Alloys Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of Nickel-Titanium
- Figure 10. Product Picture of Copper Based
- Figure 11. Product Picture of Fe Based
- Figure 12. Product Picture of Others
- Figure 13. Global Shape Memory Alloys Sales Market Share by Type in 2023
- Figure 14. Global Shape Memory Alloys Revenue Market Share by Type (2019-2024)
- Figure 15. Shape Memory Alloys Consumed in Medical Applications
- Figure 16. Global Shape Memory Alloys Market: Medical Applications (2019-2024) & (Tonnes)
- Figure 17. Shape Memory Alloys Consumed in Aircraft Applications
- Figure 18. Global Shape Memory Alloys Market: Aircraft Applications (2019-2024) & (Tonnes)
- Figure 19. Shape Memory Alloys Consumed in Automotive
- Figure 20. Global Shape Memory Alloys Market: Automotive (2019-2024) & (Tonnes)
- Figure 21. Shape Memory Alloys Consumed in Home Appliance
- Figure 22. Global Shape Memory Alloys Market: Home Appliance (2019-2024) & (Tonnes)
- Figure 23. Shape Memory Alloys Consumed in Others
- Figure 24. Global Shape Memory Alloys Market: Others (2019-2024) & (Tonnes)
- Figure 25. Global Shape Memory Alloys Sales Market Share by Application (2023)
- Figure 26. Global Shape Memory Alloys Revenue Market Share by Application in 2023
- Figure 27. Shape Memory Alloys Sales Market by Company in 2023 (Tonnes)
- Figure 28. Global Shape Memory Alloys Sales Market Share by Company in 2023
- Figure 29. Shape Memory Alloys Revenue Market by Company in 2023 (\$ Million)
- Figure 30. Global Shape Memory Alloys Revenue Market Share by Company in 2023
- Figure 31. Global Shape Memory Alloys Sales Market Share by Geographic Region (2019-2024)

Figure 32. Global Shape Memory Alloys Revenue Market Share by Geographic Region in 2023

Figure 33. Americas Shape Memory Alloys Sales 2019-2024 (Tonnes)

Figure 34. Americas Shape Memory Alloys Revenue 2019-2024 (\$ Millions)

Figure 35. APAC Shape Memory Alloys Sales 2019-2024 (Tonnes)

Figure 36. APAC Shape Memory Alloys Revenue 2019-2024 (\$ Millions)

Figure 37. Europe Shape Memory Alloys Sales 2019-2024 (Tonnes)

Figure 38. Europe Shape Memory Alloys Revenue 2019-2024 (\$ Millions)

Figure 39. Middle East & Africa Shape Memory Alloys Sales 2019-2024 (Tonnes)

Figure 40. Middle East & Africa Shape Memory Alloys Revenue 2019-2024 (\$ Millions)

Figure 41. Americas Shape Memory Alloys Sales Market Share by Country in 2023

Figure 42. Americas Shape Memory Alloys Revenue Market Share by Country in 2023

Figure 43. Americas Shape Memory Alloys Sales Market Share by Type (2019-2024)

Figure 44. Americas Shape Memory Alloys Sales Market Share by Application (2019-2024)

Figure 45. United States Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 46. Canada Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 47. Mexico Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 48. Brazil Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 49. APAC Shape Memory Alloys Sales Market Share by Region in 2023

Figure 50. APAC Shape Memory Alloys Revenue Market Share by Regions in 2023

Figure 51. APAC Shape Memory Alloys Sales Market Share by Type (2019-2024)

Figure 52. APAC Shape Memory Alloys Sales Market Share by Application (2019-2024)

Figure 53. China Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 54. Japan Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 55. South Korea Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 56. Southeast Asia Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 57. India Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 58. Australia Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 59. China Taiwan Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 60. Europe Shape Memory Alloys Sales Market Share by Country in 2023

Figure 61. Europe Shape Memory Alloys Revenue Market Share by Country in 2023

Figure 62. Europe Shape Memory Alloys Sales Market Share by Type (2019-2024)

Figure 63. Europe Shape Memory Alloys Sales Market Share by Application (2019-2024)

Figure 64. Germany Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 65. France Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

Figure 66. UK Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)

- Figure 67. Italy Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)
- Figure 68. Russia Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)
- Figure 69. Middle East & Africa Shape Memory Alloys Sales Market Share by Country in 2023
- Figure 70. Middle East & Africa Shape Memory Alloys Revenue Market Share by Country in 2023
- Figure 71. Middle East & Africa Shape Memory Alloys Sales Market Share by Type (2019-2024)
- Figure 72. Middle East & Africa Shape Memory Alloys Sales Market Share by Application (2019-2024)
- Figure 73. Egypt Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)
- Figure 74. South Africa Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)
- Figure 75. Israel Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)
- Figure 76. Turkey Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)
- Figure 77. GCC Country Shape Memory Alloys Revenue Growth 2019-2024 (\$ Millions)
- Figure 78. Manufacturing Cost Structure Analysis of Shape Memory Alloys in 2023
- Figure 79. Manufacturing Process Analysis of Shape Memory Alloys
- Figure 80. Industry Chain Structure of Shape Memory Alloys
- Figure 81. Channels of Distribution
- Figure 82. Global Shape Memory Alloys Sales Market Forecast by Region (2025-2030)
- Figure 83. Global Shape Memory Alloys Revenue Market Share Forecast by Region (2025-2030)
- Figure 84. Global Shape Memory Alloys Sales Market Share Forecast by Type (2025-2030)
- Figure 85. Global Shape Memory Alloys Revenue Market Share Forecast by Type (2025-2030)
- Figure 86. Global Shape Memory Alloys Sales Market Share Forecast by Application (2025-2030)
- Figure 87. Global Shape Memory Alloys Revenue Market Share Forecast by Application (2025-2030)



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