

Global Silicon Metal Submerged Arc Furnace Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Metal Submerged Arc Furnace market size is expected to reach \$ 299 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Silicon Metal Submerged Arc Furnace refers to submerged electric reduction furnace systems used for industrial silicon and silicon metal smelting. The scope covers main furnace equipment and integrated core furnace systems, including busbar systems, electrode systems, furnace transformers, hydraulic systems, charging systems, control systems and water-cooling systems delivered with the furnace.

Against the backdrop of changing demand for silicon metal and industrial silicon, global Silicon Metal Submerged Arc Furnace manufacturers are facing changes in larger furnace capacity, integrated furnace systems, energy efficiency upgrades, environmental compliance and increasing overseas projects. For furnace manufacturers and integrated furnace system suppliers, supply chain coordination, customer acceptance, engineering delivery, power availability and environmental compliance will directly affect capacity ramp-up, customer penetration, cost structure and regional expansion. Future competition is expected to focus more on large-capacity furnace design, busbar and electrode system integration, energy consumption control, automation, overseas project execution and customer operating references.

From the value chain perspective, upstream inputs for Silicon Metal Submerged Arc Furnace mainly include furnace shells and steel structures, furnace linings, electrode systems, busbar systems, furnace transformers, hydraulic systems, automation control systems, water-cooling systems and other core components. Stability, quality consistency, price volatility and delivery lead time of upstream supply will affect the cost

structure and supply capability of midstream manufacturers. The midstream segment mainly consists of furnace manufacturers, metallurgical equipment companies and integrated furnace system suppliers, where core competitiveness is typically reflected in large-capacity furnace design, integrated engineering experience, process control, energy-saving and environmental configuration, customer acceptance records and overseas project delivery capability. Downstream customers mainly include industrial silicon and silicon metal producers, and different projects have different requirements for capacity specification, energy consumption, environmental configuration, delivery schedule, after-sales service and long-term operating stability.

From a regional perspective, China remains the most important demand and manufacturing region for Silicon Metal Submerged Arc Furnace, while European companies have advantages in high-end technology, project experience and global customer recognition. New projects in North America, the Middle East, Southeast Asia and other overseas markets are creating incremental opportunities for global suppliers. China, North America, Europe, Asia Pacific excluding China, and the rest of the world differ in production cost, customer acceptance, supply chain localization, trade policy, environmental and safety requirements, and channel structure. These differences will continue to affect global expansion and regional competition.

In terms of sales channels and pricing mechanisms, Silicon Metal Submerged Arc Furnace is mainly sold through project-based direct sales, integrated equipment supply and engineering delivery. Product pricing is typically affected by furnace capacity, scope of supply, automation level, environmental configuration, project location, delivery schedule, key component cost and customer acceptance requirements. For large-capacity and overseas projects, incumbent suppliers usually have stronger customer stickiness. For medium and small capacity projects and more standardized configurations, price competitiveness, delivery stability and after-sales response have a greater impact on market share.

During 2026–2032, growth in the global Silicon Metal Submerged Arc Furnace market is expected to be mainly driven by new industrial silicon capacity, replacement of existing furnaces, energy efficiency and environmental upgrades, large-capacity furnace system upgrades and overseas project expansion. As downstream demand from aluminum alloys, polysilicon, silicones and silicone products continues, related equipment demand is expected to grow. At the same time, companies still need to manage risks related to silicon metal price volatility, power cost, energy consumption controls, environmental approvals, key component lead time, overseas project execution and price competition. In the long term, companies with large-capacity furnace design capability, integrated

system capability, stable delivery, overseas project experience and customer operating references are more likely to expand their market share.

Report Scope

This report studies the global Silicon Metal Submerged Arc Furnace production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Metal Submerged Arc Furnace and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Metal Submerged Arc Furnace that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Metal Submerged Arc Furnace total production and demand, 2021-2032, (Units)

Global Silicon Metal Submerged Arc Furnace total production value, 2021-2032, (USD Million)

Global Silicon Metal Submerged Arc Furnace production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Silicon Metal Submerged Arc Furnace consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Silicon Metal Submerged Arc Furnace domestic production, consumption, key domestic manufacturers and share

Global Silicon Metal Submerged Arc Furnace production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Silicon Metal Submerged Arc Furnace production by Capacity Class, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Silicon Metal Submerged Arc Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Silicon Metal Submerged Arc Furnace market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SMS group, Tenova, Metso, DHHL, Xiye, Junchi, Nashun, Sinosteel Jilin, Chengda, Tiansheng, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon Metal Submerged Arc Furnace market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Capacity Class, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Silicon Metal Submerged Arc Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Silicon Metal Submerged Arc Furnace Market, Segmentation by Capacity Class:

Small, Below 16.5MVA

Medium, 16.5 to below 25.5MVA

Large, 25.5 to below 40MVA

Ultra-large, 40MVA and above

Global Silicon Metal Submerged Arc Furnace Market, Segmentation by Application:

New Industrial Silicon Plants

Existing Industrial Silicon Plants

Companies Profiled:

SMS group

Tenova

Metso

DHHI

Xiye

Junchi

Nashun

Sinosteel Jilin

Chengda

Tiansheng

Lanzhou Dahong

Sanrui

Shuying Xi'an

Yuyou

Key Questions Answered

1. How big is the global Silicon Metal Submerged Arc Furnace market?
2. What is the demand of the global Silicon Metal Submerged Arc Furnace market?
3. What is the year over year growth of the global Silicon Metal Submerged Arc Furnace market?
4. What is the total value of the global Silicon Metal Submerged Arc Furnace market?
5. Who are the Major Players in the global Silicon Metal Submerged Arc Furnace market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Silicon Metal Submerged Arc Furnace Introduction
- 1.2 World Silicon Metal Submerged Arc Furnace Supply & Forecast
 - 1.2.1 World Silicon Metal Submerged Arc Furnace Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Silicon Metal Submerged Arc Furnace Production (2021-2032)
 - 1.2.3 World Silicon Metal Submerged Arc Furnace Pricing Trends (2021-2032)
- 1.3 World Silicon Metal Submerged Arc Furnace Production by Region (Based on Production Site)
 - 1.3.1 World Silicon Metal Submerged Arc Furnace Production Value by Region (2021-2032)
 - 1.3.2 World Silicon Metal Submerged Arc Furnace Production by Region (2021-2032)
 - 1.3.3 World Silicon Metal Submerged Arc Furnace Average Price by Region (2021-2032)
 - 1.3.4 North America Silicon Metal Submerged Arc Furnace Production (2021-2032)
 - 1.3.5 Europe Silicon Metal Submerged Arc Furnace Production (2021-2032)
 - 1.3.6 China Silicon Metal Submerged Arc Furnace Production (2021-2032)
 - 1.3.7 Middle East Silicon Metal Submerged Arc Furnace Production (2021-2032)
 - 1.3.8 Southeast Asia Silicon Metal Submerged Arc Furnace Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Silicon Metal Submerged Arc Furnace Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Silicon Metal Submerged Arc Furnace Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Silicon Metal Submerged Arc Furnace Demand (2021-2032)
- 2.2 World Silicon Metal Submerged Arc Furnace Consumption by Region
 - 2.2.1 World Silicon Metal Submerged Arc Furnace Consumption by Region (2021-2026)
 - 2.2.2 World Silicon Metal Submerged Arc Furnace Consumption Forecast by Region (2027-2032)
- 2.3 United States Silicon Metal Submerged Arc Furnace Consumption (2021-2032)
- 2.4 China Silicon Metal Submerged Arc Furnace Consumption (2021-2032)
- 2.5 Europe Silicon Metal Submerged Arc Furnace Consumption (2021-2032)
- 2.6 Japan Silicon Metal Submerged Arc Furnace Consumption (2021-2032)

2.7 South Korea Silicon Metal Submerged Arc Furnace Consumption (2021-2032)

2.8 ASEAN Silicon Metal Submerged Arc Furnace Consumption (2021-2032)

2.9 India Silicon Metal Submerged Arc Furnace Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Silicon Metal Submerged Arc Furnace Production Value by Manufacturer (2021-2026)

3.2 World Silicon Metal Submerged Arc Furnace Production by Manufacturer (2021-2026)

3.3 World Silicon Metal Submerged Arc Furnace Average Price by Manufacturer (2021-2026)

3.4 Silicon Metal Submerged Arc Furnace Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Silicon Metal Submerged Arc Furnace Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Silicon Metal Submerged Arc Furnace in 2025

3.5.3 Global Concentration Ratios (CR8) for Silicon Metal Submerged Arc Furnace in 2025

3.6 Silicon Metal Submerged Arc Furnace Market: Overall Company Footprint Analysis

3.6.1 Silicon Metal Submerged Arc Furnace Market: Region Footprint

3.6.2 Silicon Metal Submerged Arc Furnace Market: Company Product Type Footprint

3.6.3 Silicon Metal Submerged Arc Furnace Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Silicon Metal Submerged Arc Furnace Production Value Comparison

4.1.1 United States VS China: Silicon Metal Submerged Arc Furnace Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Silicon Metal Submerged Arc Furnace Production Value

Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Silicon Metal Submerged Arc Furnace Production Comparison

4.2.1 United States VS China: Silicon Metal Submerged Arc Furnace Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Silicon Metal Submerged Arc Furnace Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Silicon Metal Submerged Arc Furnace Consumption Comparison

4.3.1 United States VS China: Silicon Metal Submerged Arc Furnace Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Silicon Metal Submerged Arc Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Silicon Metal Submerged Arc Furnace Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Silicon Metal Submerged Arc Furnace Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value (2021-2026)

4.4.3 United States Based Manufacturers Silicon Metal Submerged Arc Furnace Production (2021-2026)

4.5 China Based Silicon Metal Submerged Arc Furnace Manufacturers and Market Share

4.5.1 China Based Silicon Metal Submerged Arc Furnace Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value (2021-2026)

4.5.3 China Based Manufacturers Silicon Metal Submerged Arc Furnace Production (2021-2026)

4.6 Rest of World Based Silicon Metal Submerged Arc Furnace Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Silicon Metal Submerged Arc Furnace Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Silicon Metal Submerged Arc Furnace Production (2021-2026)

5 MARKET ANALYSIS BY CAPACITY CLASS

5.1 World Silicon Metal Submerged Arc Furnace Market Size Overview by Capacity Class: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Capacity Class

5.2.1 Small, Below 16.5MVA

5.2.2 Medium, 16.5 to below 25.5MVA

5.2.3 Large, 25.5 to below 40MVA

5.2.4 Ultra-large, 40MVA and above

5.3 Market Segment by Capacity Class

5.3.1 World Silicon Metal Submerged Arc Furnace Production by Capacity Class (2021-2032)

5.3.2 World Silicon Metal Submerged Arc Furnace Production Value by Capacity Class (2021-2032)

5.3.3 World Silicon Metal Submerged Arc Furnace Average Price by Capacity Class (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Silicon Metal Submerged Arc Furnace Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 New Industrial Silicon Plants

6.2.2 Existing Industrial Silicon Plants

6.3 Market Segment by Application

6.3.1 World Silicon Metal Submerged Arc Furnace Production by Application (2021-2032)

6.3.2 World Silicon Metal Submerged Arc Furnace Production Value by Application (2021-2032)

6.3.3 World Silicon Metal Submerged Arc Furnace Average Price by Application (2021-2032)

7 COMPANY PROFILES

7.1 SMS group

7.1.1 SMS group Details

7.1.2 SMS group Major Business

7.1.3 SMS group Silicon Metal Submerged Arc Furnace Product and Services

7.1.4 SMS group Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 7.1.5 SMS group Recent Developments/Updates
- 7.1.6 SMS group Competitive Strengths & Weaknesses
- 7.2 Tenova
 - 7.2.1 Tenova Details
 - 7.2.2 Tenova Major Business
 - 7.2.3 Tenova Silicon Metal Submerged Arc Furnace Product and Services
 - 7.2.4 Tenova Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.2.5 Tenova Recent Developments/Updates
 - 7.2.6 Tenova Competitive Strengths & Weaknesses
- 7.3 Metso
 - 7.3.1 Metso Details
 - 7.3.2 Metso Major Business
 - 7.3.3 Metso Silicon Metal Submerged Arc Furnace Product and Services
 - 7.3.4 Metso Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.3.5 Metso Recent Developments/Updates
 - 7.3.6 Metso Competitive Strengths & Weaknesses
- 7.4 DHHI
 - 7.4.1 DHHI Details
 - 7.4.2 DHHI Major Business
 - 7.4.3 DHHI Silicon Metal Submerged Arc Furnace Product and Services
 - 7.4.4 DHHI Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.4.5 DHHI Recent Developments/Updates
 - 7.4.6 DHHI Competitive Strengths & Weaknesses
- 7.5 Xiye
 - 7.5.1 Xiye Details
 - 7.5.2 Xiye Major Business
 - 7.5.3 Xiye Silicon Metal Submerged Arc Furnace Product and Services
 - 7.5.4 Xiye Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.5.5 Xiye Recent Developments/Updates
 - 7.5.6 Xiye Competitive Strengths & Weaknesses
- 7.6 Junchi
 - 7.6.1 Junchi Details
 - 7.6.2 Junchi Major Business
 - 7.6.3 Junchi Silicon Metal Submerged Arc Furnace Product and Services
 - 7.6.4 Junchi Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross

Margin and Market Share (2021-2026)

7.6.5 Junchi Recent Developments/Updates

7.6.6 Junchi Competitive Strengths & Weaknesses

7.7 Nashun

7.7.1 Nashun Details

7.7.2 Nashun Major Business

7.7.3 Nashun Silicon Metal Submerged Arc Furnace Product and Services

7.7.4 Nashun Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross

Margin and Market Share (2021-2026)

7.7.5 Nashun Recent Developments/Updates

7.7.6 Nashun Competitive Strengths & Weaknesses

7.8 Sinosteel Jilin

7.8.1 Sinosteel Jilin Details

7.8.2 Sinosteel Jilin Major Business

7.8.3 Sinosteel Jilin Silicon Metal Submerged Arc Furnace Product and Services

7.8.4 Sinosteel Jilin Silicon Metal Submerged Arc Furnace Production, Price, Value,

Gross Margin and Market Share (2021-2026)

7.8.5 Sinosteel Jilin Recent Developments/Updates

7.8.6 Sinosteel Jilin Competitive Strengths & Weaknesses

7.9 Chengda

7.9.1 Chengda Details

7.9.2 Chengda Major Business

7.9.3 Chengda Silicon Metal Submerged Arc Furnace Product and Services

7.9.4 Chengda Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross

Margin and Market Share (2021-2026)

7.9.5 Chengda Recent Developments/Updates

7.9.6 Chengda Competitive Strengths & Weaknesses

7.10 Tiansheng

7.10.1 Tiansheng Details

7.10.2 Tiansheng Major Business

7.10.3 Tiansheng Silicon Metal Submerged Arc Furnace Product and Services

7.10.4 Tiansheng Silicon Metal Submerged Arc Furnace Production, Price, Value,

Gross Margin and Market Share (2021-2026)

7.10.5 Tiansheng Recent Developments/Updates

7.10.6 Tiansheng Competitive Strengths & Weaknesses

7.11 Lanzhou Dahong

7.11.1 Lanzhou Dahong Details

7.11.2 Lanzhou Dahong Major Business

7.11.3 Lanzhou Dahong Silicon Metal Submerged Arc Furnace Product and Services

7.11.4 Lanzhou Dahong Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.11.5 Lanzhou Dahong Recent Developments/Updates

7.11.6 Lanzhou Dahong Competitive Strengths & Weaknesses

7.12 Sanrui

7.12.1 Sanrui Details

7.12.2 Sanrui Major Business

7.12.3 Sanrui Silicon Metal Submerged Arc Furnace Product and Services

7.12.4 Sanrui Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.12.5 Sanrui Recent Developments/Updates

7.12.6 Sanrui Competitive Strengths & Weaknesses

7.13 Shuying Xi'an

7.13.1 Shuying Xi'an Details

7.13.2 Shuying Xi'an Major Business

7.13.3 Shuying Xi'an Silicon Metal Submerged Arc Furnace Product and Services

7.13.4 Shuying Xi'an Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.13.5 Shuying Xi'an Recent Developments/Updates

7.13.6 Shuying Xi'an Competitive Strengths & Weaknesses

7.14 Yuyou

7.14.1 Yuyou Details

7.14.2 Yuyou Major Business

7.14.3 Yuyou Silicon Metal Submerged Arc Furnace Product and Services

7.14.4 Yuyou Silicon Metal Submerged Arc Furnace Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.14.5 Yuyou Recent Developments/Updates

7.14.6 Yuyou Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Silicon Metal Submerged Arc Furnace Industry Chain

8.2 Silicon Metal Submerged Arc Furnace Upstream Analysis

8.2.1 Silicon Metal Submerged Arc Furnace Core Raw Materials

8.2.2 Main Manufacturers of Silicon Metal Submerged Arc Furnace Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Silicon Metal Submerged Arc Furnace Production Mode

8.6 Silicon Metal Submerged Arc Furnace Procurement Model

8.7 Silicon Metal Submerged Arc Furnace Industry Sales Model and Sales Channels

8.7.1 Silicon Metal Submerged Arc Furnace Sales Model

8.7.2 Silicon Metal Submerged Arc Furnace Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Silicon Metal Submerged Arc Furnace Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Silicon Metal Submerged Arc Furnace Production Value by Region (2021-2026) & (USD Million)

Table 3. World Silicon Metal Submerged Arc Furnace Production Value by Region (2027-2032) & (USD Million)

Table 4. World Silicon Metal Submerged Arc Furnace Production Value Market Share by Region (2021-2026)

Table 5. World Silicon Metal Submerged Arc Furnace Production Value Market Share by Region (2027-2032)

Table 6. World Silicon Metal Submerged Arc Furnace Production by Region (2021-2026) & (Units)

Table 7. World Silicon Metal Submerged Arc Furnace Production by Region (2027-2032) & (Units)

Table 8. World Silicon Metal Submerged Arc Furnace Production Market Share by Region (2021-2026)

Table 9. World Silicon Metal Submerged Arc Furnace Production Market Share by Region (2027-2032)

Table 10. World Silicon Metal Submerged Arc Furnace Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Silicon Metal Submerged Arc Furnace Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Silicon Metal Submerged Arc Furnace Major Market Trends

Table 13. World Silicon Metal Submerged Arc Furnace Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Silicon Metal Submerged Arc Furnace Consumption by Region (2021-2026) & (Units)

Table 15. World Silicon Metal Submerged Arc Furnace Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Silicon Metal Submerged Arc Furnace Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Silicon Metal Submerged Arc Furnace Producers in 2025

Table 18. World Silicon Metal Submerged Arc Furnace Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Silicon Metal Submerged Arc Furnace Producers in 2025

Table 20. World Silicon Metal Submerged Arc Furnace Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Silicon Metal Submerged Arc Furnace Company Evaluation Quadrant

Table 22. World Silicon Metal Submerged Arc Furnace Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Silicon Metal Submerged Arc Furnace Production Site of Key Manufacturer

Table 24. Silicon Metal Submerged Arc Furnace Market: Company Product Type Footprint

Table 25. Silicon Metal Submerged Arc Furnace Market: Company Product Application Footprint

Table 26. Silicon Metal Submerged Arc Furnace Competitive Factors

Table 27. Silicon Metal Submerged Arc Furnace New Entrant and Capacity Expansion Plans

Table 28. Silicon Metal Submerged Arc Furnace Mergers & Acquisitions Activity

Table 29. United States VS China Silicon Metal Submerged Arc Furnace Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Silicon Metal Submerged Arc Furnace Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Silicon Metal Submerged Arc Furnace Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Silicon Metal Submerged Arc Furnace Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Silicon Metal Submerged Arc Furnace Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Silicon Metal Submerged Arc Furnace Production Market Share (2021-2026)

Table 37. China Based Silicon Metal Submerged Arc Furnace Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Silicon Metal Submerged Arc Furnace Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Silicon Metal Submerged Arc Furnace Production Market Share (2021-2026)
Table 42. Rest of World Based Silicon Metal Submerged Arc Furnace Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Silicon Metal Submerged Arc Furnace Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Silicon Metal Submerged Arc Furnace Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Silicon Metal Submerged Arc Furnace Production Market Share (2021-2026)
Table 47. World Silicon Metal Submerged Arc Furnace Production Value by Capacity Class, (USD Million), 2021 & 2025 & 2032
Table 48. World Silicon Metal Submerged Arc Furnace Production by Capacity Class (2021-2026) & (Units)
Table 49. World Silicon Metal Submerged Arc Furnace Production by Capacity Class (2027-2032) & (Units)
Table 50. World Silicon Metal Submerged Arc Furnace Production Value by Capacity Class (2021-2026) & (USD Million)
Table 51. World Silicon Metal Submerged Arc Furnace Production Value by Capacity Class (2027-2032) & (USD Million)
Table 52. World Silicon Metal Submerged Arc Furnace Average Price by Capacity Class (2021-2026) & (US\$/Unit)
Table 53. World Silicon Metal Submerged Arc Furnace Average Price by Capacity Class (2027-2032) & (US\$/Unit)
Table 54. World Silicon Metal Submerged Arc Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 55. World Silicon Metal Submerged Arc Furnace Production by Application (2021-2026) & (Units)
Table 56. World Silicon Metal Submerged Arc Furnace Production by Application (2027-2032) & (Units)
Table 57. World Silicon Metal Submerged Arc Furnace Production Value by Application (2021-2026) & (USD Million)
Table 58. World Silicon Metal Submerged Arc Furnace Production Value by Application (2027-2032) & (USD Million)
Table 59. World Silicon Metal Submerged Arc Furnace Average Price by Application

(2021-2026) & (US\$/Unit)

Table 60. World Silicon Metal Submerged Arc Furnace Average Price by Application

(2027-2032) & (US\$/Unit)

Table 61. SMS group Basic Information, Manufacturing Base and Competitors

Table 62. SMS group Major Business

Table 63. SMS group Silicon Metal Submerged Arc Furnace Product and Services

Table 64. SMS group Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. SMS group Recent Developments/Updates

Table 66. SMS group Competitive Strengths & Weaknesses

Table 67. Tenova Basic Information, Manufacturing Base and Competitors

Table 68. Tenova Major Business

Table 69. Tenova Silicon Metal Submerged Arc Furnace Product and Services

Table 70. Tenova Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Tenova Recent Developments/Updates

Table 72. Tenova Competitive Strengths & Weaknesses

Table 73. Metso Basic Information, Manufacturing Base and Competitors

Table 74. Metso Major Business

Table 75. Metso Silicon Metal Submerged Arc Furnace Product and Services

Table 76. Metso Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Metso Recent Developments/Updates

Table 78. Metso Competitive Strengths & Weaknesses

Table 79. DHHI Basic Information, Manufacturing Base and Competitors

Table 80. DHHI Major Business

Table 81. DHHI Silicon Metal Submerged Arc Furnace Product and Services

Table 82. DHHI Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. DHHI Recent Developments/Updates

Table 84. DHHI Competitive Strengths & Weaknesses

Table 85. Xiye Basic Information, Manufacturing Base and Competitors

Table 86. Xiye Major Business

Table 87. Xiye Silicon Metal Submerged Arc Furnace Product and Services

Table 88. Xiye Silicon Metal Submerged Arc Furnace Production (Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 89. Xiye Recent Developments/Updates

Table 90. Xiye Competitive Strengths & Weaknesses

Table 91. Junchi Basic Information, Manufacturing Base and Competitors

Table 92. Junchi Major Business

Table 93. Junchi Silicon Metal Submerged Arc Furnace Product and Services

Table 94. Junchi Silicon Metal Submerged Arc Furnace Production (Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 95. Junchi Recent Developments/Updates

Table 96. Junchi Competitive Strengths & Weaknesses

Table 97. Nashun Basic Information, Manufacturing Base and Competitors

Table 98. Nashun Major Business

Table 99. Nashun Silicon Metal Submerged Arc Furnace Product and Services

Table 100. Nashun Silicon Metal Submerged Arc Furnace Production (Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 101. Nashun Recent Developments/Updates

Table 102. Nashun Competitive Strengths & Weaknesses

Table 103. Sinosteel Jilin Basic Information, Manufacturing Base and Competitors

Table 104. Sinosteel Jilin Major Business

Table 105. Sinosteel Jilin Silicon Metal Submerged Arc Furnace Product and Services

Table 106. Sinosteel Jilin Silicon Metal Submerged Arc Furnace Production (Units),
Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 107. Sinosteel Jilin Recent Developments/Updates

Table 108. Sinosteel Jilin Competitive Strengths & Weaknesses

Table 109. Chengda Basic Information, Manufacturing Base and Competitors

Table 110. Chengda Major Business

Table 111. Chengda Silicon Metal Submerged Arc Furnace Product and Services

Table 112. Chengda Silicon Metal Submerged Arc Furnace Production (Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 113. Chengda Recent Developments/Updates

Table 114. Chengda Competitive Strengths & Weaknesses

Table 115. Tiansheng Basic Information, Manufacturing Base and Competitors

Table 116. Tiansheng Major Business

Table 117. Tiansheng Silicon Metal Submerged Arc Furnace Product and Services

Table 118. Tiansheng Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 119. Tiansheng Recent Developments/Updates

Table 120. Tiansheng Competitive Strengths & Weaknesses

Table 121. Lanzhou Dahong Basic Information, Manufacturing Base and Competitors

Table 122. Lanzhou Dahong Major Business

Table 123. Lanzhou Dahong Silicon Metal Submerged Arc Furnace Product and Services

Table 124. Lanzhou Dahong Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 125. Lanzhou Dahong Recent Developments/Updates

Table 126. Lanzhou Dahong Competitive Strengths & Weaknesses

Table 127. Sanrui Basic Information, Manufacturing Base and Competitors

Table 128. Sanrui Major Business

Table 129. Sanrui Silicon Metal Submerged Arc Furnace Product and Services

Table 130. Sanrui Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 131. Sanrui Recent Developments/Updates

Table 132. Sanrui Competitive Strengths & Weaknesses

Table 133. Shuying Xi'an Basic Information, Manufacturing Base and Competitors

Table 134. Shuying Xi'an Major Business

Table 135. Shuying Xi'an Silicon Metal Submerged Arc Furnace Product and Services

Table 136. Shuying Xi'an Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 137. Shuying Xi'an Recent Developments/Updates

Table 138. Shuying Xi'an Competitive Strengths & Weaknesses

Table 139. Yuyou Basic Information, Manufacturing Base and Competitors

Table 140. Yuyou Major Business

Table 141. Yuyou Silicon Metal Submerged Arc Furnace Product and Services

Table 142. Yuyou Silicon Metal Submerged Arc Furnace Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 143. Yuyou Recent Developments/Updates

Table 144. Yuyou Competitive Strengths & Weaknesses

Table 145. Global Key Players of Silicon Metal Submerged Arc Furnace Upstream (Raw

Materials)

Table 146. Global Silicon Metal Submerged Arc Furnace Typical Customers

Table 147. Silicon Metal Submerged Arc Furnace Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Silicon Metal Submerged Arc Furnace Picture
- Figure 2. World Silicon Metal Submerged Arc Furnace Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Silicon Metal Submerged Arc Furnace Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Silicon Metal Submerged Arc Furnace Production (2021-2032) & (Units)
- Figure 5. World Silicon Metal Submerged Arc Furnace Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Silicon Metal Submerged Arc Furnace Production Value Market Share by Region (2021-2032)
- Figure 7. World Silicon Metal Submerged Arc Furnace Production Market Share by Region (2021-2032)
- Figure 8. North America Silicon Metal Submerged Arc Furnace Production (2021-2032) & (Units)
- Figure 9. Europe Silicon Metal Submerged Arc Furnace Production (2021-2032) & (Units)
- Figure 10. China Silicon Metal Submerged Arc Furnace Production (2021-2032) & (Units)
- Figure 11. Middle East Silicon Metal Submerged Arc Furnace Production (2021-2032) & (Units)
- Figure 12. Southeast Asia Silicon Metal Submerged Arc Furnace Production (2021-2032) & (Units)
- Figure 13. Silicon Metal Submerged Arc Furnace Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)
- Figure 16. World Silicon Metal Submerged Arc Furnace Consumption Market Share by Region (2021-2032)
- Figure 17. United States Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)
- Figure 18. China Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)
- Figure 19. Europe Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)
- Figure 20. Japan Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)

(Units)

Figure 21. South Korea Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 22. ASEAN Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 23. India Silicon Metal Submerged Arc Furnace Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Silicon Metal Submerged Arc Furnace by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Silicon Metal Submerged Arc Furnace Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Silicon Metal Submerged Arc Furnace Markets in 2025

Figure 27. United States VS China: Silicon Metal Submerged Arc Furnace Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Silicon Metal Submerged Arc Furnace Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Silicon Metal Submerged Arc Furnace Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Silicon Metal Submerged Arc Furnace Production Market Share 2025

Figure 31. China Based Manufacturers Silicon Metal Submerged Arc Furnace Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Silicon Metal Submerged Arc Furnace Production Market Share 2025

Figure 33. World Silicon Metal Submerged Arc Furnace Production Value by Capacity Class, (USD Million), 2021 & 2025 & 2032

Figure 34. World Silicon Metal Submerged Arc Furnace Production Value Market Share by Capacity Class in 2025

Figure 35. Small, Below 16.5MVA

Figure 36. Medium, 16.5 to below 25.5MVA

Figure 37. Large, 25.5 to below 40MVA

Figure 38. Ultra-large, 40MVA and above

Figure 39. World Silicon Metal Submerged Arc Furnace Production Market Share by Capacity Class (2021-2032)

Figure 40. World Silicon Metal Submerged Arc Furnace Production Value Market Share by Capacity Class (2021-2032)

Figure 41. World Silicon Metal Submerged Arc Furnace Average Price by Capacity Class (2021-2032) & (US\$/Unit)

- Figure 42. World Silicon Metal Submerged Arc Furnace Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 43. World Silicon Metal Submerged Arc Furnace Production Value Market Share by Application in 2025
- Figure 44. New Industrial Silicon Plants
- Figure 45. Existing Industrial Silicon Plants
- Figure 46. World Silicon Metal Submerged Arc Furnace Production Market Share by Application (2021-2032)
- Figure 47. World Silicon Metal Submerged Arc Furnace Production Value Market Share by Application (2021-2032)
- Figure 48. World Silicon Metal Submerged Arc Furnace Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 49. Silicon Metal Submerged Arc Furnace Industry Chain
- Figure 50. Silicon Metal Submerged Arc Furnace Procurement Model
- Figure 51. Silicon Metal Submerged Arc Furnace Sales Model
- Figure 52. Silicon Metal Submerged Arc Furnace Sales Channels, Direct Sales, and Distribution
- Figure 53. Methodology
- Figure 54. Research Process and Data Source

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