

Global Copper Staves for Blast Furnaces Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE40722E6714EN.html>

Date: September 2026

Pages: 137

Price: US\$ 4,480.00 (Single User License)

ID: GE40722E6714EN

Abstracts

The global Copper Staves for Blast Furnaces market size is expected to reach \$ 380 million by 2032, rising at a market growth of 2.9% CAGR during the forecast period (2026-2032).

Copper Staves for Blast Furnaces are large, plate-type furnace cooling elements installed along the inner side of the blast furnace shell and manufactured primarily from high-conductivity copper or copper alloys, with integrated internal channels through which cooling water continuously circulates.

Copper Staves for Blast Furnaces represent a technologically mature and highly engineered niche segment of the metallurgical equipment and components market, with demand increasingly driven by maintenance, replacement, and refurbishment of the existing global blast furnace installed base. Copper staves are not standardized mass-produced components. Even within the same blast furnace, staves installed in different furnace zones can vary significantly in dimensions, copper weight, cooling-channel configuration, hot-face design, and operating conditions. Consequently, competitive strength in this industry depends on a combination of blast furnace thermal engineering capabilities, material and cooling-channel manufacturing technologies, welding and deep-hole drilling expertise, accumulated operational data from long-term blast furnace service, and proven project references with major steel producers. From a supply perspective, European suppliers continue to maintain strong capabilities in blast furnace system engineering, long-life copper stave technologies, and global project execution, while China has developed a relatively comprehensive manufacturing cluster comprising specialized copper cooling equipment producers. Japan, South Korea, and North America also have established specialist suppliers with extensive experience in copper components for blast furnaces.

From a product and technology perspective, industry development has shifted from the earlier emphasis on maximizing thermal conductivity toward integrated optimization of longer service life, resistance to bending deformation and abrasive wear, cooling-channel reliability, lower copper consumption, stabilization of the protective layer on the hot face, and reduction of blast furnace heat losses. Copper staves are continuously exposed to burden abrasion, fluctuating thermal loads, and structural thermal deformation during blast furnace operation. Excessive wear may eventually expose internal cooling channels and increase the risk of water leakage. As a result, leading product technologies increasingly emphasize mechanical protection of the hot face, structural stability, cooling-channel integrity, and overall reliability throughout the blast furnace campaign.

Report Scope

This report studies the global Copper Staves for Blast Furnaces production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Copper Staves for Blast Furnaces 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 Copper Staves for Blast Furnaces that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Copper Staves for Blast Furnaces total production and demand, 2021-2032, (Tons)

Global Copper Staves for Blast Furnaces total production value, 2021-2032, (USD Million)

Global Copper Staves for Blast Furnaces production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Copper Staves for Blast Furnaces consumption by region & country,

CAGR, 2021-2032 & (Tons)

U.S. VS China: Copper Staves for Blast Furnaces domestic production, consumption, key domestic manufacturers and share

Global Copper Staves for Blast Furnaces production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Copper Staves for Blast Furnaces production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Copper Staves for Blast Furnaces production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Copper Staves for Blast Furnaces 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 cunova GmbH, Luvata, Primetals Technologies Limited, SMS group GmbH, Nippon Steel Engineering Co., Ltd., Tobata Seisakusho Co., Ltd., SE & Company Co., Ltd., Berry Metal Company, Shantou Huaxing Metallurgical Equipment Co., Ltd., Luoyang Tongbao Metallurgical Equipment Co., Ltd., 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 Copper Staves for Blast Furnaces market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Copper Staves for Blast Furnaces Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Copper Staves for Blast Furnaces Market, Segmentation by Type:

Deep-Drilled / Machined Copper Plate Staves

Cast Copper Staves

Cast-in Steel Pipe Copper Staves

Global Copper Staves for Blast Furnaces Market, Segmentation by Form:

Round-Channel Copper Staves

Oval-Channel Copper Staves

Global Copper Staves for Blast Furnaces Market, Segmentation by Application:

Integrated Steel Mills

Foundry Pig Iron Plants

Companies Profiled:

cunova GmbH

Luvata

Primetals Technologies Limited

SMS group GmbH

Nippon Steel Engineering Co., Ltd.

Tobata Seisakusho Co., Ltd.

SE & Company Co., Ltd.

Berry Metal Company

Shantou Huaxing Metallurgical Equipment Co., Ltd.

Luoyang Tongbao Metallurgical Equipment Co., Ltd.

Yantai Lubao Nonferrous Alloy Co., Ltd.

Luoyang Hengzheng Copper Industry Co., Ltd.

Hebei Wanfeng Metallurgical Spare Parts Co., Ltd.

Jiangxi Yuyue Technology Co., Ltd.

CECAL

Falcon Foundry Company

Key Questions Answered

1. How big is the global Copper Staves for Blast Furnaces market?
2. What is the demand of the global Copper Staves for Blast Furnaces market?
3. What is the year over year growth of the global Copper Staves for Blast Furnaces market?
4. What is the total value of the global Copper Staves for Blast Furnaces market?
5. Who are the Major Players in the global Copper Staves for Blast Furnaces market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Copper Staves for Blast Furnaces Introduction
- 1.2 World Copper Staves for Blast Furnaces Supply & Forecast
 - 1.2.1 World Copper Staves for Blast Furnaces Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Copper Staves for Blast Furnaces Production (2021-2032)
 - 1.2.3 World Copper Staves for Blast Furnaces Pricing Trends (2021-2032)
- 1.3 World Copper Staves for Blast Furnaces Production by Region (Based on Production Site)
 - 1.3.1 World Copper Staves for Blast Furnaces Production Value by Region (2021-2032)
 - 1.3.2 World Copper Staves for Blast Furnaces Production by Region (2021-2032)
 - 1.3.3 World Copper Staves for Blast Furnaces Average Price by Region (2021-2032)
 - 1.3.4 North America Copper Staves for Blast Furnaces Production (2021-2032)
 - 1.3.5 Europe Copper Staves for Blast Furnaces Production (2021-2032)
 - 1.3.6 China Copper Staves for Blast Furnaces Production (2021-2032)
 - 1.3.7 Japan Copper Staves for Blast Furnaces Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Copper Staves for Blast Furnaces Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Copper Staves for Blast Furnaces Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Copper Staves for Blast Furnaces Demand (2021-2032)
- 2.2 World Copper Staves for Blast Furnaces Consumption by Region
 - 2.2.1 World Copper Staves for Blast Furnaces Consumption by Region (2021-2026)
 - 2.2.2 World Copper Staves for Blast Furnaces Consumption Forecast by Region (2027-2032)
- 2.3 United States Copper Staves for Blast Furnaces Consumption (2021-2032)
- 2.4 China Copper Staves for Blast Furnaces Consumption (2021-2032)
- 2.5 Europe Copper Staves for Blast Furnaces Consumption (2021-2032)
- 2.6 Japan Copper Staves for Blast Furnaces Consumption (2021-2032)
- 2.7 South Korea Copper Staves for Blast Furnaces Consumption (2021-2032)
- 2.8 ASEAN Copper Staves for Blast Furnaces Consumption (2021-2032)
- 2.9 India Copper Staves for Blast Furnaces Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Copper Staves for Blast Furnaces Production Value by Manufacturer (2021-2026)
- 3.2 World Copper Staves for Blast Furnaces Production by Manufacturer (2021-2026)
- 3.3 World Copper Staves for Blast Furnaces Average Price by Manufacturer (2021-2026)
- 3.4 Copper Staves for Blast Furnaces Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Copper Staves for Blast Furnaces Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Copper Staves for Blast Furnaces in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Copper Staves for Blast Furnaces in 2025
- 3.6 Copper Staves for Blast Furnaces Market: Overall Company Footprint Analysis
 - 3.6.1 Copper Staves for Blast Furnaces Market: Region Footprint
 - 3.6.2 Copper Staves for Blast Furnaces Market: Company Product Type Footprint
 - 3.6.3 Copper Staves for Blast Furnaces 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: Copper Staves for Blast Furnaces Production Value Comparison
 - 4.1.1 United States VS China: Copper Staves for Blast Furnaces Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Copper Staves for Blast Furnaces Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Copper Staves for Blast Furnaces Production Comparison
 - 4.2.1 United States VS China: Copper Staves for Blast Furnaces Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Copper Staves for Blast Furnaces Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Copper Staves for Blast Furnaces Consumption Comparison

4.3.1 United States VS China: Copper Staves for Blast Furnaces Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Copper Staves for Blast Furnaces Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Copper Staves for Blast Furnaces Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Copper Staves for Blast Furnaces Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Copper Staves for Blast Furnaces Production Value (2021-2026)

4.4.3 United States Based Manufacturers Copper Staves for Blast Furnaces Production (2021-2026)

4.5 China Based Copper Staves for Blast Furnaces Manufacturers and Market Share

4.5.1 China Based Copper Staves for Blast Furnaces Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Copper Staves for Blast Furnaces Production Value (2021-2026)

4.5.3 China Based Manufacturers Copper Staves for Blast Furnaces Production (2021-2026)

4.6 Rest of World Based Copper Staves for Blast Furnaces Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Copper Staves for Blast Furnaces Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Copper Staves for Blast Furnaces Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Copper Staves for Blast Furnaces Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Copper Staves for Blast Furnaces Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Deep-Drilled / Machined Copper Plate Staves

5.2.2 Cast Copper Staves

5.2.3 Cast-in Steel Pipe Copper Staves

5.3 Market Segment by Type

5.3.1 World Copper Staves for Blast Furnaces Production by Type (2021-2032)

5.3.2 World Copper Staves for Blast Furnaces Production Value by Type (2021-2032)

5.3.3 World Copper Staves for Blast Furnaces Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM

6.1 World Copper Staves for Blast Furnaces Market Size Overview by Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Form

6.2.1 Round-Channel Copper Staves

6.2.2 Oval-Channel Copper Staves

6.3 Market Segment by Form

6.3.1 World Copper Staves for Blast Furnaces Production by Form (2021-2032)

6.3.2 World Copper Staves for Blast Furnaces Production Value by Form (2021-2032)

6.3.3 World Copper Staves for Blast Furnaces Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Copper Staves for Blast Furnaces Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Integrated Steel Mills

7.2.2 Foundry Pig Iron Plants

7.3 Market Segment by Application

7.3.1 World Copper Staves for Blast Furnaces Production by Application (2021-2032)

7.3.2 World Copper Staves for Blast Furnaces Production Value by Application (2021-2032)

7.3.3 World Copper Staves for Blast Furnaces Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 cunova GmbH

8.1.1 cunova GmbH Details

8.1.2 cunova GmbH Major Business

8.1.3 cunova GmbH Copper Staves for Blast Furnaces Product and Services

8.1.4 cunova GmbH Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 cunova GmbH Recent Developments/Updates

8.1.6 cunova GmbH Competitive Strengths & Weaknesses

8.2 Luvata

- 8.2.1 Luvata Details
- 8.2.2 Luvata Major Business
- 8.2.3 Luvata Copper Staves for Blast Furnaces Product and Services
- 8.2.4 Luvata Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.2.5 Luvata Recent Developments/Updates
- 8.2.6 Luvata Competitive Strengths & Weaknesses
- 8.3 Primetals Technologies Limited
 - 8.3.1 Primetals Technologies Limited Details
 - 8.3.2 Primetals Technologies Limited Major Business
 - 8.3.3 Primetals Technologies Limited Copper Staves for Blast Furnaces Product and Services
 - 8.3.4 Primetals Technologies Limited Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Primetals Technologies Limited Recent Developments/Updates
 - 8.3.6 Primetals Technologies Limited Competitive Strengths & Weaknesses
- 8.4 SMS group GmbH
 - 8.4.1 SMS group GmbH Details
 - 8.4.2 SMS group GmbH Major Business
 - 8.4.3 SMS group GmbH Copper Staves for Blast Furnaces Product and Services
 - 8.4.4 SMS group GmbH Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 SMS group GmbH Recent Developments/Updates
 - 8.4.6 SMS group GmbH Competitive Strengths & Weaknesses
- 8.5 Nippon Steel Engineering Co., Ltd.
 - 8.5.1 Nippon Steel Engineering Co., Ltd. Details
 - 8.5.2 Nippon Steel Engineering Co., Ltd. Major Business
 - 8.5.3 Nippon Steel Engineering Co., Ltd. Copper Staves for Blast Furnaces Product and Services
 - 8.5.4 Nippon Steel Engineering Co., Ltd. Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Nippon Steel Engineering Co., Ltd. Recent Developments/Updates
 - 8.5.6 Nippon Steel Engineering Co., Ltd. Competitive Strengths & Weaknesses
- 8.6 Tobata Seisakusho Co., Ltd.
 - 8.6.1 Tobata Seisakusho Co., Ltd. Details
 - 8.6.2 Tobata Seisakusho Co., Ltd. Major Business
 - 8.6.3 Tobata Seisakusho Co., Ltd. Copper Staves for Blast Furnaces Product and Services
 - 8.6.4 Tobata Seisakusho Co., Ltd. Copper Staves for Blast Furnaces Production,

Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Tobata Seisakusho Co., Ltd. Recent Developments/Updates

8.6.6 Tobata Seisakusho Co., Ltd. Competitive Strengths & Weaknesses

8.7 SE & Company Co., Ltd.

8.7.1 SE & Company Co., Ltd. Details

8.7.2 SE & Company Co., Ltd. Major Business

8.7.3 SE & Company Co., Ltd. Copper Staves for Blast Furnaces Product and Services

8.7.4 SE & Company Co., Ltd. Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 SE & Company Co., Ltd. Recent Developments/Updates

8.7.6 SE & Company Co., Ltd. Competitive Strengths & Weaknesses

8.8 Berry Metal Company

8.8.1 Berry Metal Company Details

8.8.2 Berry Metal Company Major Business

8.8.3 Berry Metal Company Copper Staves for Blast Furnaces Product and Services

8.8.4 Berry Metal Company Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Berry Metal Company Recent Developments/Updates

8.8.6 Berry Metal Company Competitive Strengths & Weaknesses

8.9 Shantou Huaxing Metallurgical Equipment Co., Ltd.

8.9.1 Shantou Huaxing Metallurgical Equipment Co., Ltd. Details

8.9.2 Shantou Huaxing Metallurgical Equipment Co., Ltd. Major Business

8.9.3 Shantou Huaxing Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Product and Services

8.9.4 Shantou Huaxing Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Shantou Huaxing Metallurgical Equipment Co., Ltd. Recent Developments/Updates

8.9.6 Shantou Huaxing Metallurgical Equipment Co., Ltd. Competitive Strengths & Weaknesses

8.10 Luoyang Tongbao Metallurgical Equipment Co., Ltd.

8.10.1 Luoyang Tongbao Metallurgical Equipment Co., Ltd. Details

8.10.2 Luoyang Tongbao Metallurgical Equipment Co., Ltd. Major Business

8.10.3 Luoyang Tongbao Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Product and Services

8.10.4 Luoyang Tongbao Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Luoyang Tongbao Metallurgical Equipment Co., Ltd. Recent

Developments/Updates

8.10.6 Luoyang Tongbao Metallurgical Equipment Co., Ltd. Competitive Strengths & Weaknesses

8.11 Yantai Lubao Nonferrous Alloy Co., Ltd.

8.11.1 Yantai Lubao Nonferrous Alloy Co., Ltd. Details

8.11.2 Yantai Lubao Nonferrous Alloy Co., Ltd. Major Business

8.11.3 Yantai Lubao Nonferrous Alloy Co., Ltd. Copper Staves for Blast Furnaces Product and Services

8.11.4 Yantai Lubao Nonferrous Alloy Co., Ltd. Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Yantai Lubao Nonferrous Alloy Co., Ltd. Recent Developments/Updates

8.11.6 Yantai Lubao Nonferrous Alloy Co., Ltd. Competitive Strengths & Weaknesses

8.12 Luoyang Hengzheng Copper Industry Co., Ltd.

8.12.1 Luoyang Hengzheng Copper Industry Co., Ltd. Details

8.12.2 Luoyang Hengzheng Copper Industry Co., Ltd. Major Business

8.12.3 Luoyang Hengzheng Copper Industry Co., Ltd. Copper Staves for Blast Furnaces Product and Services

8.12.4 Luoyang Hengzheng Copper Industry Co., Ltd. Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Luoyang Hengzheng Copper Industry Co., Ltd. Recent Developments/Updates

8.12.6 Luoyang Hengzheng Copper Industry Co., Ltd. Competitive Strengths & Weaknesses

8.13 Hebei Wanfeng Metallurgical Spare Parts Co., Ltd.

8.13.1 Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Details

8.13.2 Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Major Business

8.13.3 Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Copper Staves for Blast Furnaces Product and Services

8.13.4 Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Recent Developments/Updates

8.13.6 Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Competitive Strengths & Weaknesses

8.14 Jiangxi Yuyue Technology Co., Ltd.

8.14.1 Jiangxi Yuyue Technology Co., Ltd. Details

8.14.2 Jiangxi Yuyue Technology Co., Ltd. Major Business

8.14.3 Jiangxi Yuyue Technology Co., Ltd. Copper Staves for Blast Furnaces Product and Services

8.14.4 Jiangxi Yuyue Technology Co., Ltd. Copper Staves for Blast Furnaces

Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Jiangxi Yuyue Technology Co., Ltd. Recent Developments/Updates

8.14.6 Jiangxi Yuyue Technology Co., Ltd. Competitive Strengths & Weaknesses

8.15 CECAL

8.15.1 CECAL Details

8.15.2 CECAL Major Business

8.15.3 CECAL Copper Staves for Blast Furnaces Product and Services

8.15.4 CECAL Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 CECAL Recent Developments/Updates

8.15.6 CECAL Competitive Strengths & Weaknesses

8.16 Falcon Foundry Company

8.16.1 Falcon Foundry Company Details

8.16.2 Falcon Foundry Company Major Business

8.16.3 Falcon Foundry Company Copper Staves for Blast Furnaces Product and Services

8.16.4 Falcon Foundry Company Copper Staves for Blast Furnaces Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Falcon Foundry Company Recent Developments/Updates

8.16.6 Falcon Foundry Company Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Copper Staves for Blast Furnaces Industry Chain

9.2 Copper Staves for Blast Furnaces Upstream Analysis

9.2.1 Copper Staves for Blast Furnaces Core Raw Materials

9.2.2 Main Manufacturers of Copper Staves for Blast Furnaces Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Copper Staves for Blast Furnaces Production Mode

9.6 Copper Staves for Blast Furnaces Procurement Model

9.7 Copper Staves for Blast Furnaces Industry Sales Model and Sales Channels

9.7.1 Copper Staves for Blast Furnaces Sales Model

9.7.2 Copper Staves for Blast Furnaces Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Copper Staves for Blast Furnaces Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Copper Staves for Blast Furnaces Production Value by Region (2021-2026) & (USD Million)

Table 3. World Copper Staves for Blast Furnaces Production Value by Region (2027-2032) & (USD Million)

Table 4. World Copper Staves for Blast Furnaces Production Value Market Share by Region (2021-2026)

Table 5. World Copper Staves for Blast Furnaces Production Value Market Share by Region (2027-2032)

Table 6. World Copper Staves for Blast Furnaces Production by Region (2021-2026) & (Tons)

Table 7. World Copper Staves for Blast Furnaces Production by Region (2027-2032) & (Tons)

Table 8. World Copper Staves for Blast Furnaces Production Market Share by Region (2021-2026)

Table 9. World Copper Staves for Blast Furnaces Production Market Share by Region (2027-2032)

Table 10. World Copper Staves for Blast Furnaces Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Copper Staves for Blast Furnaces Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Copper Staves for Blast Furnaces Major Market Trends

Table 13. World Copper Staves for Blast Furnaces Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Copper Staves for Blast Furnaces Consumption by Region (2021-2026) & (Tons)

Table 15. World Copper Staves for Blast Furnaces Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Copper Staves for Blast Furnaces Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Copper Staves for Blast Furnaces Producers in 2025

Table 18. World Copper Staves for Blast Furnaces Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Copper Staves for Blast Furnaces Producers in 2025

Table 20. World Copper Staves for Blast Furnaces Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Copper Staves for Blast Furnaces Company Evaluation Quadrant

Table 22. World Copper Staves for Blast Furnaces Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Copper Staves for Blast Furnaces Production Site of Key Manufacturer

Table 24. Copper Staves for Blast Furnaces Market: Company Product Type Footprint

Table 25. Copper Staves for Blast Furnaces Market: Company Product Application Footprint

Table 26. Copper Staves for Blast Furnaces Competitive Factors

Table 27. Copper Staves for Blast Furnaces New Entrant and Capacity Expansion Plans

Table 28. Copper Staves for Blast Furnaces Mergers & Acquisitions Activity

Table 29. United States VS China Copper Staves for Blast Furnaces Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Copper Staves for Blast Furnaces Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Copper Staves for Blast Furnaces Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Copper Staves for Blast Furnaces Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Copper Staves for Blast Furnaces Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Copper Staves for Blast Furnaces Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Copper Staves for Blast Furnaces Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Copper Staves for Blast Furnaces Production Market Share (2021-2026)

Table 37. China Based Copper Staves for Blast Furnaces Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Copper Staves for Blast Furnaces Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Copper Staves for Blast Furnaces Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Copper Staves for Blast Furnaces Production,

(2021-2026) & (Tons)

Table 41. China Based Manufacturers Copper Staves for Blast Furnaces Production Market Share (2021-2026)

Table 42. Rest of World Based Copper Staves for Blast Furnaces Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Copper Staves for Blast Furnaces Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Copper Staves for Blast Furnaces Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Copper Staves for Blast Furnaces Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Copper Staves for Blast Furnaces Production Market Share (2021-2026)

Table 47. World Copper Staves for Blast Furnaces Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Copper Staves for Blast Furnaces Production by Type (2021-2026) & (Tons)

Table 49. World Copper Staves for Blast Furnaces Production by Type (2027-2032) & (Tons)

Table 50. World Copper Staves for Blast Furnaces Production Value by Type (2021-2026) & (USD Million)

Table 51. World Copper Staves for Blast Furnaces Production Value by Type (2027-2032) & (USD Million)

Table 52. World Copper Staves for Blast Furnaces Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Copper Staves for Blast Furnaces Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Copper Staves for Blast Furnaces Production Value by Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Copper Staves for Blast Furnaces Production by Form (2021-2026) & (Tons)

Table 56. World Copper Staves for Blast Furnaces Production by Form (2027-2032) & (Tons)

Table 57. World Copper Staves for Blast Furnaces Production Value by Form (2021-2026) & (USD Million)

Table 58. World Copper Staves for Blast Furnaces Production Value by Form (2027-2032) & (USD Million)

Table 59. World Copper Staves for Blast Furnaces Average Price by Form (2021-2026) & (US\$/Ton)

Table 60. World Copper Staves for Blast Furnaces Average Price by Form (2027-2032) & (US\$/Ton)

Table 61. World Copper Staves for Blast Furnaces Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Copper Staves for Blast Furnaces Production by Application (2021-2026) & (Tons)

Table 63. World Copper Staves for Blast Furnaces Production by Application (2027-2032) & (Tons)

Table 64. World Copper Staves for Blast Furnaces Production Value by Application (2021-2026) & (USD Million)

Table 65. World Copper Staves for Blast Furnaces Production Value by Application (2027-2032) & (USD Million)

Table 66. World Copper Staves for Blast Furnaces Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Copper Staves for Blast Furnaces Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. cunova GmbH Basic Information, Manufacturing Base and Competitors

Table 69. cunova GmbH Major Business

Table 70. cunova GmbH Copper Staves for Blast Furnaces Product and Services

Table 71. cunova GmbH Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. cunova GmbH Recent Developments/Updates

Table 73. cunova GmbH Competitive Strengths & Weaknesses

Table 74. Luvata Basic Information, Manufacturing Base and Competitors

Table 75. Luvata Major Business

Table 76. Luvata Copper Staves for Blast Furnaces Product and Services

Table 77. Luvata Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Luvata Recent Developments/Updates

Table 79. Luvata Competitive Strengths & Weaknesses

Table 80. Primetals Technologies Limited Basic Information, Manufacturing Base and Competitors

Table 81. Primetals Technologies Limited Major Business

Table 82. Primetals Technologies Limited Copper Staves for Blast Furnaces Product and Services

Table 83. Primetals Technologies Limited Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Primetals Technologies Limited Recent Developments/Updates
Table 85. Primetals Technologies Limited Competitive Strengths & Weaknesses
Table 86. SMS group GmbH Basic Information, Manufacturing Base and Competitors
Table 87. SMS group GmbH Major Business
Table 88. SMS group GmbH Copper Staves for Blast Furnaces Product and Services
Table 89. SMS group GmbH Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. SMS group GmbH Recent Developments/Updates
Table 91. SMS group GmbH Competitive Strengths & Weaknesses
Table 92. Nippon Steel Engineering Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 93. Nippon Steel Engineering Co., Ltd. Major Business
Table 94. Nippon Steel Engineering Co., Ltd. Copper Staves for Blast Furnaces Product and Services
Table 95. Nippon Steel Engineering Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. Nippon Steel Engineering Co., Ltd. Recent Developments/Updates
Table 97. Nippon Steel Engineering Co., Ltd. Competitive Strengths & Weaknesses
Table 98. Tobata Seisakusho Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 99. Tobata Seisakusho Co., Ltd. Major Business
Table 100. Tobata Seisakusho Co., Ltd. Copper Staves for Blast Furnaces Product and Services
Table 101. Tobata Seisakusho Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Tobata Seisakusho Co., Ltd. Recent Developments/Updates
Table 103. Tobata Seisakusho Co., Ltd. Competitive Strengths & Weaknesses
Table 104. SE & Company Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 105. SE & Company Co., Ltd. Major Business
Table 106. SE & Company Co., Ltd. Copper Staves for Blast Furnaces Product and Services
Table 107. SE & Company Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. SE & Company Co., Ltd. Recent Developments/Updates

Table 109. SE & Company Co., Ltd. Competitive Strengths & Weaknesses

Table 110. Berry Metal Company Basic Information, Manufacturing Base and Competitors

Table 111. Berry Metal Company Major Business

Table 112. Berry Metal Company Copper Staves for Blast Furnaces Product and Services

Table 113. Berry Metal Company Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Berry Metal Company Recent Developments/Updates

Table 115. Berry Metal Company Competitive Strengths & Weaknesses

Table 116. Shantou Huaxing Metallurgical Equipment Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 117. Shantou Huaxing Metallurgical Equipment Co., Ltd. Major Business

Table 118. Shantou Huaxing Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Product and Services

Table 119. Shantou Huaxing Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Shantou Huaxing Metallurgical Equipment Co., Ltd. Recent Developments/Updates

Table 121. Shantou Huaxing Metallurgical Equipment Co., Ltd. Competitive Strengths & Weaknesses

Table 122. Luoyang Tongbao Metallurgical Equipment Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 123. Luoyang Tongbao Metallurgical Equipment Co., Ltd. Major Business

Table 124. Luoyang Tongbao Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Product and Services

Table 125. Luoyang Tongbao Metallurgical Equipment Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Luoyang Tongbao Metallurgical Equipment Co., Ltd. Recent Developments/Updates

Table 127. Luoyang Tongbao Metallurgical Equipment Co., Ltd. Competitive Strengths & Weaknesses

Table 128. Yantai Lubao Nonferrous Alloy Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 129. Yantai Lubao Nonferrous Alloy Co., Ltd. Major Business

Table 130. Yantai Lubao Nonferrous Alloy Co., Ltd. Copper Staves for Blast Furnaces

Product and Services

Table 131. Yantai Lubao Nonferrous Alloy Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Yantai Lubao Nonferrous Alloy Co., Ltd. Recent Developments/Updates

Table 133. Yantai Lubao Nonferrous Alloy Co., Ltd. Competitive Strengths & Weaknesses

Table 134. Luoyang Hengzheng Copper Industry Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 135. Luoyang Hengzheng Copper Industry Co., Ltd. Major Business

Table 136. Luoyang Hengzheng Copper Industry Co., Ltd. Copper Staves for Blast Furnaces Product and Services

Table 137. Luoyang Hengzheng Copper Industry Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Luoyang Hengzheng Copper Industry Co., Ltd. Recent Developments/Updates

Table 139. Luoyang Hengzheng Copper Industry Co., Ltd. Competitive Strengths & Weaknesses

Table 140. Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 141. Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Major Business

Table 142. Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Copper Staves for Blast Furnaces Product and Services

Table 143. Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Recent Developments/Updates

Table 145. Hebei Wanfeng Metallurgical Spare Parts Co., Ltd. Competitive Strengths & Weaknesses

Table 146. Jiangxi Yuyue Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 147. Jiangxi Yuyue Technology Co., Ltd. Major Business

Table 148. Jiangxi Yuyue Technology Co., Ltd. Copper Staves for Blast Furnaces Product and Services

Table 149. Jiangxi Yuyue Technology Co., Ltd. Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Jiangxi Yuyue Technology Co., Ltd. Recent Developments/Updates
Table 151. Jiangxi Yuyue Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 152. CECAL Basic Information, Manufacturing Base and Competitors
Table 153. CECAL Major Business
Table 154. CECAL Copper Staves for Blast Furnaces Product and Services
Table 155. CECAL Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 156. CECAL Recent Developments/Updates
Table 157. CECAL Competitive Strengths & Weaknesses
Table 158. Falcon Foundry Company Basic Information, Manufacturing Base and Competitors
Table 159. Falcon Foundry Company Major Business
Table 160. Falcon Foundry Company Copper Staves for Blast Furnaces Product and Services
Table 161. Falcon Foundry Company Copper Staves for Blast Furnaces Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 162. Falcon Foundry Company Recent Developments/Updates
Table 163. Falcon Foundry Company Competitive Strengths & Weaknesses
Table 164. Global Key Players of Copper Staves for Blast Furnaces Upstream (Raw Materials)
Table 165. Global Copper Staves for Blast Furnaces Typical Customers
Table 166. Copper Staves for Blast Furnaces Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Copper Staves for Blast Furnaces Picture

Figure 2. World Copper Staves for Blast Furnaces Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Copper Staves for Blast Furnaces Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Copper Staves for Blast Furnaces Production (2021-2032) & (Tons)

Figure 5. World Copper Staves for Blast Furnaces Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Copper Staves for Blast Furnaces Production Value Market Share by Region (2021-2032)

Figure 7. World Copper Staves for Blast Furnaces Production Market Share by Region (2021-2032)

Figure 8. North America Copper Staves for Blast Furnaces Production (2021-2032) & (Tons)

Figure 9. Europe Copper Staves for Blast Furnaces Production (2021-2032) & (Tons)

Figure 10. China Copper Staves for Blast Furnaces Production (2021-2032) & (Tons)

Figure 11. Japan Copper Staves for Blast Furnaces Production (2021-2032) & (Tons)

Figure 12. Copper Staves for Blast Furnaces Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 15. World Copper Staves for Blast Furnaces Consumption Market Share by Region (2021-2032)

Figure 16. United States Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 17. China Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 18. Europe Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 19. Japan Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 20. South Korea Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 22. India Copper Staves for Blast Furnaces Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Copper Staves for Blast Furnaces by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Copper Staves for Blast Furnaces Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Copper Staves for Blast Furnaces Markets in 2025

Figure 26. United States VS China: Copper Staves for Blast Furnaces Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Copper Staves for Blast Furnaces Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Copper Staves for Blast Furnaces Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Copper Staves for Blast Furnaces Production Market Share 2025

Figure 30. China Based Manufacturers Copper Staves for Blast Furnaces Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Copper Staves for Blast Furnaces Production Market Share 2025

Figure 32. World Copper Staves for Blast Furnaces Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Copper Staves for Blast Furnaces Production Value Market Share by Type in 2025

Figure 34. Deep-Drilled / Machined Copper Plate Staves

Figure 35. Cast Copper Staves

Figure 36. Cast-in Steel Pipe Copper Staves

Figure 37. World Copper Staves for Blast Furnaces Production Market Share by Type (2021-2032)

Figure 38. World Copper Staves for Blast Furnaces Production Value Market Share by Type (2021-2032)

Figure 39. World Copper Staves for Blast Furnaces Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. World Copper Staves for Blast Furnaces Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World Copper Staves for Blast Furnaces Production Value Market Share by Form in 2025

Figure 42. Round-Channel Copper Staves

Figure 43. Oval-Channel Copper Staves

Figure 44. World Copper Staves for Blast Furnaces Production Market Share by Form (2021-2032)

Figure 45. World Copper Staves for Blast Furnaces Production Value Market Share by Form (2021-2032)

Figure 46. World Copper Staves for Blast Furnaces Average Price by Form (2021-2032) & (US\$/Ton)

Figure 47. World Copper Staves for Blast Furnaces Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Copper Staves for Blast Furnaces Production Value Market Share by Application in 2025

Figure 49. Integrated Steel Mills

Figure 50. Foundry Pig Iron Plants

Figure 51. World Copper Staves for Blast Furnaces Production Market Share by Application (2021-2032)

Figure 52. World Copper Staves for Blast Furnaces Production Value Market Share by Application (2021-2032)

Figure 53. World Copper Staves for Blast Furnaces Average Price by Application (2021-2032) & (US\$/Ton)

Figure 54. Copper Staves for Blast Furnaces Industry Chain

Figure 55. Copper Staves for Blast Furnaces Procurement Model

Figure 56. Copper Staves for Blast Furnaces Sales Model

Figure 57. Copper Staves for Blast Furnaces Sales Channels, Direct Sales, and Distribution

Figure 58. Methodology

Figure 59. Research Process and Data Source

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