

Steel Slag Market Size, Share & Trends Analysis Report By Type (BOF Slag, EAF Slag, LF/Other Slag), By Application (Cement & Concrete, Road Construction, Asphalt Aggregate, Rail Ballast), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

Steel Slag Market Summary

The global steel slag market size was estimated at USD 26.1 billion in 2025 and is projected to reach USD 36.2 billion by 2033, growing at a CAGR of 4.2% from 2026 to 2033. Steel slag is a byproduct of the steelmaking process, primarily from basic oxygen furnaces (BOF) and electric arc furnaces (EAF), and contains calcium, silica, iron, and magnesium compounds.

The global market is witnessing significant growth driven by infrastructure development across both emerging and developed economies. Governments worldwide are investing heavily in highways, bridges, rail corridors, ports, airports, and urban infrastructure, creating strong demand for durable, cost-effective construction materials. It has gained wide acceptance in road base layers, asphalt mixes, embankments, and pavement construction because of its superior mechanical strength, high abrasion resistance, and extended service life compared to conventional aggregates.

Countries such as India and China are actively promoting the use of slag-based materials in national highway expansion and smart city programs to support sustainable infrastructure development. The World Steel Association reported that global crude steel production reached approximately 1.85 billion metric tons in 2025, with China accounting for over 1.005 billion metric tons and India producing nearly 149.6 million metric tons, reinforcing the availability of steel slag for commercial applications.

The growing emphasis on sustainability and circular economy practices is another key factor driving the market. As steel slag is generated as a by-product during steelmaking operations, its reuse helps reduce industrial waste disposal while lowering dependence on natural aggregates and limestone extraction. Environmental policies across Europe, North America, and Asia are increasingly encouraging the recycling and reuse of metallurgical by-products rather than landfill disposal.

Major steel producers such as ArcelorMittal and thyssenkrupp AG have established integrated slag recycling systems that convert steel slag into construction aggregates, cement additives, and engineered fill materials. Furthermore, the European Union's Green Deal and waste-reduction initiatives are accelerating the adoption of recycled materials in infrastructure and commercial construction projects, thereby supporting low-carbon, resource-efficient building practices.

The continued expansion of the global steel industry is further strengthening the opportunities for steel slag generation and commercialization. Increasing crude steel production through electric arc furnaces and basic oxygen furnaces has substantially increased slag output, enabling wider utilization across industrial and construction applications. Steel manufacturers are increasingly investing in advanced slag-processing technologies to improve product quality, recover valuable materials, and generate additional revenue streams from industrial waste.

Improved processing techniques have expanded the application scope of steel slag to include cement manufacturing, soil stabilization, fertilizers, coastal protection structures, and marine construction projects. These developments are transforming steel slag from a waste by-product into a commercially valuable secondary raw material.

Global Steel Slag Market Report Segmentation

This report forecasts revenue and volume growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global steel slag market report based on the type, application, and region.

Type Outlook (Volume, Tons; Revenue, USD Million, 2021 - 2033)

BOF Slag

EAF Slag

LF/Other Slag

Application Outlook (Volume, Tons; Revenue, USD Million, 2021 - 2033)

Cement & Concrete

Road Construction

Asphalt Aggregate

Fertilizer & Soil Conditioning

Rail Ballast

Others

Regional Outlook (Volume, Tons; Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

Italy

France

Russia

Asia Pacific

China

India

Japan

Latin America

Brazil

Middle East & Africa

Saudi Arabia

UAE

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Information Analysis
 - 1.3.2. Data Analysis Models
 - 1.3.3. Market Formulation & Data Visualization
 - 1.3.4. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data Applications

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Global Steel Market Outlook
- 3.2. Industry Value Chain Analysis
 - 3.2.1. Raw Material Trends
 - 3.2.2. Sales Channel Analysis
- 3.3. Regulatory Framework
- 3.4. Market Dynamics
 - 3.4.1. Market Driver Analysis
 - 3.4.2. Market Restraint Analysis
- 3.5. Porter's Five Forces Analysis
 - 3.5.1. Bargaining Power of Suppliers
 - 3.5.2. Bargaining Power of Buyers
 - 3.5.3. Threat of Substitution
 - 3.5.4. Threat of New Entrants
 - 3.5.5. Competitive Rivalry
- 3.6. PESTLE Analysis
 - 3.6.1. Political

- 3.6.2. Economic
- 3.6.3. Social Landscape
- 3.6.4. Type
- 3.6.5. Environmental
- 3.6.6. Legal

CHAPTER 4. STEEL SLAG MARKET: TYPE ESTIMATES & TREND ANALYSIS

- 4.1. Steel Slag Market: Type Movement Analysis, 2025 & 2033
- 4.2. BOF Slag
 - 4.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
- 4.3. EAF Slag
 - 4.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
- 4.4. LF/Other Slag
 - 4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

CHAPTER 5. STEEL SLAG MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 5.1. Steel Slag Market: Application Movement Analysis, 2025 & 2033
- 5.2. Cement & Concrete
 - 5.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
- 5.3. Road Construction
 - 5.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
- 5.4. Asphalt Aggregate
 - 5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
- 5.5. Fertilizer & Soil Conditioning
 - 5.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
- 5.6. Rail Ballast
 - 5.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
- 5.7. Others
 - 5.7.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

CHAPTER 6. STEEL SLAG MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

- 6.1. Regional Analysis, 2025 & 2033
- 6.2. North America
 - 6.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

- 6.2.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
- 6.2.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
- 6.2.4. U.S.
 - 6.2.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
 - 6.2.4.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
 - 6.2.4.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
- 6.2.5. Canada
 - 6.2.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
 - 6.2.5.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
 - 6.2.5.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
- 6.2.6. Mexico
 - 6.2.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
 - 6.2.6.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
 - 6.2.6.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
- 6.3. Europe
 - 6.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
 - 6.3.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
 - 6.3.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
 - 6.3.4. Germany
 - 6.3.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
 - 6.3.4.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
 - 6.3.4.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
 - 6.3.5. Italy
 - 6.3.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
 - 6.3.5.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
 - 6.3.5.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
 - 6.3.6. France
 - 6.3.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)
 - 6.3.6.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)
 - 6.3.6.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million) (Tons)
 - 6.3.7. Russia

6.3.7.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.3.7.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.3.7.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.4. Asia Pacific

6.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.4.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.4.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.4.4. China

6.4.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.4.4.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.4.4.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.4.5. India

6.4.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.4.5.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.4.5.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.4.6. Japan

6.4.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.4.6.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.4.6.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.5. Latin America

6.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.5.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.5.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.5.4. Brazil

6.5.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.5.4.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.5.4.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.6. Middle East & Africa

6.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.6.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.6.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.6.4. Saudi Arabia

6.6.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.6.4.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.6.4.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

6.6.5. UAE

6.6.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

6.6.5.2. Market estimates and forecasts, by type, 2021 - 2033 (USD Million) (Tons)

6.6.5.3. Market estimates and forecasts, by application, 2021 - 2033 (USD Million)
(Tons)

CHAPTER 7. COMPETITIVE LANDSCAPE

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Company Categorization

7.3. Heat Map Analysis

7.4. Vendor Landscape

7.4.1. List of Distributors

7.4.2. List of Manufacturers

7.5. List of Prospective End-Users

7.6. Strategy Initiatives

7.7. Company Profiles/Listing

7.7.1. ArcelorMittal

7.7.1.1. Company Overview

7.7.1.2. Financial Performance

7.7.1.3. Product Benchmarking

7.7.2. United States Steel Corporation

7.7.2.1. Company Overview

7.7.2.2. Financial Performance

7.7.2.3. Product Benchmarking

7.7.3. Nippon Steel Corporation

7.7.3.1. Company Overview

7.7.3.2. Financial Performance

7.7.3.3. Product Benchmarking

7.7.4. Tata Steel

7.7.4.1. Company Overview

7.7.4.2. Financial Performance

7.7.4.3. Product Benchmarking

7.7.5. Jindal Steel Ltd.

- 7.7.5.1. Company Overview
- 7.7.5.2. Financial Performance
- 7.7.5.3. Product Benchmarking
- 7.7.6. KOBE STEEL, LTD.
 - 7.7.6.1. Company Overview
 - 7.7.6.2. Financial Performance
 - 7.7.6.3. Product Benchmarking
- 7.7.7. Hyundai Steel
 - 7.7.7.1. Company Overview
 - 7.7.7.2. Financial Performance
 - 7.7.7.3. Product Benchmarking
- 7.7.8. Vallourec
 - 7.7.8.1. Company Overview
 - 7.7.8.2. Financial Performance
 - 7.7.8.3. Product Benchmarking
- 7.7.9. ThyssenKrupp AG
 - 7.7.9.1. Company Overview
 - 7.7.9.2. Financial Performance
 - 7.7.9.3. Product Benchmarking
- 7.7.10. JFE Steel Corporation
 - 7.7.10.1. Company Overview
 - 7.7.10.2. Financial Performance
 - 7.7.10.3. Product Benchmarking

List Of Tables

LIST OF TABLES

Table 1 Steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 2 BOF steel slag market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

Table 3 EAF steel slag market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

Table 4 LF/Other steel slag market estimates and forecasts, 2021 - 2033 (USD Million) (Tons)

Table 5 Steel slag market estimates and forecasts, in cement & concrete, 2021 - 2033 (USD Million) (Tons)

Table 6 Steel slag market estimates and forecasts, in road construction, 2021 - 2033 (USD Million) (Tons)

Table 7 Steel slag market estimates and forecasts, in asphalt aggregate, 2021 - 2033 (USD Million) (Tons)

Table 8 Steel slag market estimates and forecasts, in fertilizer & soil conditioning, 2021 - 2033 (USD Million) (Tons)

Table 9 Steel slag market estimates and forecasts, in rail ballast, 2021 - 2033 (USD Million) (Tons)

Table 10 Steel slag market estimates and forecasts, in others, 2021 - 2033 (USD Million) (Tons)

Table 11 North America steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 12 North America steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 13 North America steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 14 U.S. steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 15 U.S. steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 16 U.S. steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 17 Canada steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 18 Canada steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 19 Canada steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 20 Mexico steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 21 Mexico steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 22 Mexico steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 23 Europe steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 24 Europe steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 25 Europe steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 26 Germany steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 27 Germany steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 28 Germany steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 29 France steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 30 France steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 31 France steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 32 Italy steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 33 Italy steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 34 Italy steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 35 Russia steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 36 Russia steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 37 Russia steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 38 Asia Pacific steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 39 Asia Pacific steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 40 Asia Pacific steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 41 China steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 42 China steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 43 China steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 44 India steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 45 India steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 46 India steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 47 Japan steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 48 Japan steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 49 Japan steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 50 Latin America steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 51 Latin America steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 52 Latin America steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 53 Brazil steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 54 Brazil steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 55 Brazil steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 56 Middle East & Africa steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 57 Middle East & Africa steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 58 Middle East & Africa steel slag market estimates & forecasts, by application,

2021 - 2033 (USD Million) (Tons)

Table 59 Saudi Arabia steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 60 Saudi Arabia steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 61 Saudi Arabia steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

Table 62 UAE steel slag market estimates & forecasts, 2021 - 2033 (USD Million) (Tons)

Table 63 UAE steel slag market estimates & forecasts, by type, 2021 - 2033 (USD Million) (Tons)

Table 64 UAE steel slag market estimates & forecasts, by application, 2021 - 2033 (USD Million) (Tons)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market segmentation
- Fig. 2 Information procurement
- Fig. 3 Data analysis models
- Fig. 4 Market formulation and validation
- Fig. 5 Market snapshot
- Fig. 6 Segmental outlook
- Fig. 7 Competitive outlook
- Fig. 8 Steel slag market outlook, 2021-2033 (USD Million) (Tons)
- Fig. 9 Value chain analysis
- Fig. 10 Market dynamics
- Fig. 11 Porter's analysis
- Fig. 12 PESTEL analysis
- Fig. 13 Steel slag market, by type: Key takeaways
- Fig. 14 Steel slag market, by type: Market share, 2025 & 2033
- Fig. 15 Steel slag market, by application: Key takeaways
- Fig. 16 Steel slag market, by application: Market share, 2025 & 2033
- Fig. 17 Steel slag market: Regional analysis, 2025
- Fig. 18 Steel slag market, by region: Key takeaways

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