

High Purity Pig Iron Market Size, Share & Trends Analysis Report By Application (Energy, Industrial, Automotive & Transportation), By Region (North America, Middle East & Africa , CSA, Europe, Asia Pacific), And Segment Forecasts, 2022 - 2030

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Abstracts

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High Purity Pig Iron Market Growth & Trends

The global high purity pig iron market is expected to reach USD 17.09 billion by 2030, according to a new report by Grand View Research, Inc, expanding at a CAGR of 8.5% over the forecast period. Investments in wind power generation are expected to benefit the industry growth from 2022 to 2030. HPPI is the principal raw material used in the production of nodular cast iron components, which are deployed in industries, such as wind energy, automotive & transportation, etc. Increasing emissions and limited potential for fossil fuels have led to the focus on energy production from renewable sources, such as wind and solar. HPPI finds applications in different wind turbine components, such as rotors, shafts, frames, and blades among others.

China, a leader in wind energy installations, aims to double its wind and solar capacity by 2025. The pollution levels are also high in China compared to other countries around the world, therefore it is necessary to increase renewable power generation. As per the central economic plan of the country, nearly 33% of power supply will come from renewable sources by 2025, an increase from 29% in 2020. Recently, Siemens Gamesa Renewable Energy received an order for 14 offshore wind turbines from a Green Power Investment firm in Japan. This Ishikari offshore project is likely to produce 112 MW of wind energy wherein installations are planned to start in July 2023. The

turbines have ClassNK certification ensuring stringent technical standards. Similar investments in wind energy are expected to provide a boost to the HPPI products demand.

Automotive & transportation is a key application segment, wherein nodular cast iron components made using HPPI are used. This segment is likely to register a growth of 8.3%, in terms of revenue, from 2022 to 2030. A rise in the production capacities for vehicles is projected to attract the demand for HPPI products. For instance, Kia Motors in India is expected to increase its production capacity to 400,000 units by the end of 2022. Increasing utilization of steel scrap in foundries, especially in China, is projected to remain a favorable factor for the industry players. The increasing shift towards electric furnaces compared to blast furnaces requires high purity iron to reduce the impurities in the melt. This is anticipated to benefit in the reduction of carbon emissions and, thus, protect the environment.

High Purity Pig Iron Market Report Highlights

The energy application segment is projected to register the fastest CAGR over the forecast period. A shift towards renewable energy is anticipated to promote the usage of nodular cast iron components and benefit HPPI demand

Automotive & transportation was the largest application segment in 2021. Investments for new plants and capacity additions are projected to boost the demand for HPPI products in casting parts

Asia Pacific was the leading region in 2021 due to offshore wind projects and industrial production in China, India, and Japan

India is anticipated to register a lucrative growth rate, in terms of revenue, over the forecast period due to the growing focus on domestic manufacturing to cater to the growing demand from various end-use industries

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Research Methodology
- 1.4. Research Scope and Assumptions
- 1.5. Information Procurement
 - 1.5.1. Purchased database
 - 1.5.2. GVR's Internal Database
 - 1.5.3. Secondary Sources
 - 1.5.4. Third Party Perspective
 - 1.5.5. Primary Research
- 1.6. Information Analysis
 - 1.6.1. Data Analysis Models
- 1.7. Market Formulation and Data Visualization
- 1.8. Data Validation and Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Insights
- 2.2. Segmental Outlook

CHAPTER 3. MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Value Chain Analysis
 - 3.3.1. Raw Material Trends
- 3.4. Technology Overview
- 3.5. Regulatory Framework
- 3.6. Market Dynamics
 - 3.6.1. Market Driver Analysis
 - 3.6.2. Market Restraint Analysis
 - 3.6.3. Industry Challenges
 - 3.6.4. Market Opportunities
- 3.7. Industry Analysis- Porter's
- 3.8. PESTEL Analysis

CHAPTER 4. HIGH PURITY PIG IRON MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

4.1. Definition & Scope

4.2. Application Movement Analysis & Market Share, 2021 & 2030

4.3. Automotive & Transportation

4.3.1. Market estimates and forecasts, by automotive & transportation, 2017 - 2030 (Kilotons, USD Million)

4.4. Energy

4.4.1. Market estimates and forecasts, by energy, 2017 - 2030 (Kilotons, USD Million)

4.5. Industrial

4.5.1. Market estimates and forecasts, by industrial, 2017 - 2030 (Kilotons, USD Million)

CHAPTER 5. HIGH PURITY PIG IRON MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

5.1. Regional Snapshot

5.2. Regional Movement Analysis & Market Share, 2021 & 2030

5.3. North America

5.3.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.3.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.3.3. U.S.

5.3.3.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.3.3.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.3.4. Canada

5.3.4.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.3.4.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.3.5. Mexico

5.3.5.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.3.5.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.4. Europe

5.4.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.4.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Million)

5.4.3. Germany

5.4.3.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.4.3.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.4.4. France

5.4.4.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.4.4.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.4.5. Russia

5.4.5.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.4.5.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.4.6. Turkey

5.4.6.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.4.6.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.4.7. Italy

5.4.7.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.4.7.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.5. Asia Pacific

5.5.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.5.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.5.3. China

5.5.3.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.5.3.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.5.4. Japan

5.5.4.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.5.4.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.5.5. India

5.5.5.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.5.5.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.5.6. South Korea

5.5.6.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.5.6.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.6. Central & South America

5.6.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.6.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.6.3. Brazil

5.6.3.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.6.3.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.7. Middle East & Africa

5.7.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.7.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.7.3. South Africa

5.7.3.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.7.3.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

5.7.4. Iran

5.7.4.1. Market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

5.7.4.2. Market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

CHAPTER 6. COMPETITIVE ANALYSIS

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

6.1.1. Major Deals & Strategic Alliances

6.2. Company /Competition Categorization

6.3. Vendor Landscape

6.3.1. List of Prospective End-Users

6.3.2. List of Raw Material Suppliers and Distributors

CHAPTER 7. COMPANY PROFILES

7.1. Rio Tinto Fer et Titane (RTFT)

7.1.1. Company Overview

7.1.2. Financial Performance

7.1.3. Product Benchmarking

7.1.4. Strategic Initiatives

- 7.2. Tronox Holdings plc
 - 7.2.1. Company Overview
 - 7.2.2. Financial Performance
 - 7.2.3. Product Benchmarking
 - 7.2.4. Strategic Initiatives
- 7.3. Richards Bay Minerals (RBM)
 - 7.3.1. Company Overview
 - 7.3.2. Financial Performance
 - 7.3.3. Product Benchmarking
 - 7.3.4. Strategic Initiatives
- 7.4. Eramet Group
 - 7.4.1. Company Overview
 - 7.4.2. Financial Performance
 - 7.4.3. Product Benchmarking
 - 7.4.4. Strategic Initiatives
- 7.5. Sesa Goa Iron Ore
 - 7.5.1. Company Overview
 - 7.5.2. Financial Performance
 - 7.5.3. Product Benchmarking
 - 7.5.4. Strategic Initiatives
- 7.6. Mineral-Loy
 - 7.6.1. Company Overview
 - 7.6.2. Financial Performance
 - 7.6.3. Product Benchmarking
 - 7.6.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 High purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 2 High purity pig iron market estimates and forecasts, in automotive & transportation, 2017 - 2030 (Kilotons, USD Million)

Table 3 High purity pig iron market estimates and forecasts, in energy 2017 - 2030 (Kilotons, USD Million)

Table 4 High purity pig iron market estimates and forecasts, in industrial, 2017 - 2030 (Kilotons, USD Million)

Table 5 North America high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 6 North America high purity pig iron market estimates and forecasts, by application, 2017- 2030 (Kilotons, USD Million)

Table 7 U.S. high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 8 U.S. high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 9 Canada high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 10 Canada high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 11 Mexico high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 12 Mexico high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 13 Europe high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 14 Europe high purity pig iron market estimates and forecasts, by application, 2017- 2030 (Kilotons, USD Million)

Table 15 Germany high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 16 Germany high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 17 Italy high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 18 Italy high purity pig iron market estimates and forecasts, by application, 2017 -

2030 (Kilotons, USD Million)

Table 19 Turkey high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 20 Turkey high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 21 Russia high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 22 Russia high purity pig iron market estimates and forecasts, by type, 2017 - 2030 (Kilotons, USD Million)

Table 23 Russia high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 24 France high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 25 France high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 26 Asia Pacific high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 27 Asia Pacific high purity pig iron market estimates and forecasts, by application, 2017- 2030 (Kilotons, USD Million)

Table 28 China high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 29 China high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 30 Japan high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 31 Japan high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 32 India high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 33 India high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 34 South Korea high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 35 South Korea high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 36 Central & South America high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 37 Central & South America high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 38 Brazil high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 39 Brazil high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 40 Middle East & Africa high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 41 Middle East & Africa high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 42 South Africa high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 43 South Africa high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

Table 44 Iran high purity pig iron market estimates and forecasts, 2017 - 2030 (Kilotons, USD Million)

Table 45 Iran high purity pig iron market estimates and forecasts, by application, 2017 - 2030 (Kilotons, USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 High purity pig iron market segmentation
- Fig. 2 Information procurement
- Fig. 3 Primary research pattern
- Fig. 4 Primary research process
- Fig. 5 Primary research approaches
- Fig. 6 Market snapshot
- Fig. 7 Segment outlook
- Fig. 8 Penetration & growth prospect mapping
- Fig. 9 Value chain analysis
- Fig. 10 Market dynamics
- Fig. 11 Market driver analysis
- Fig. 12 Market restraint analysis
- Fig. 13 High purity pig iron market: Application movement analysis, 2021 & 2030 (%)
- Fig. 14 High purity pig iron market: Regional snapshot
- Fig. 15 High purity pig iron market: Regional movement analysis, 2021 & 2030 (%)

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