

# Global Hydrogen-induced Cracking Resistant Steel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Hydrogen-induced Cracking Resistant Steel market size was valued at US\$ 1010 million in 2025 and is forecast to a readjusted size of US\$ 1518 million by 2032 with a CAGR of 6.0% during review period.

Hydrogen-induced Cracking Resistant Steel refers to a class of steels specifically developed for sour service environments, especially wet H<sub>2</sub>S-containing oil and gas, refining, gas treatment, pipeline, and pressure vessel applications, where resistance to hydrogen-induced cracking is required in addition to strength, toughness, and weldability. It is designed to solve the problem that conventional carbon steels and low-alloy steels may develop internal cracking, stepwise cracking, and related damage when atomic hydrogen generated by aqueous sulfide corrosion diffuses into the steel and accumulates at inclusions, segregated zones, or other microstructural traps. Historically, this product category emerged alongside the expansion of sour oil and gas production and the increasing severity of refinery and gas-processing service conditions, which led the industry to adopt dedicated qualification methods such as NACE/AMPP TM0284 and to develop cleaner steelmaking routes with lower sulfur and phosphorus, improved inclusion shape control, reduced segregation, and optimized rolling and heat treatment. In upstream terms, the category depends on iron ore, scrap, coke, ferroalloys, calcium treatment materials, and other steelmaking inputs, together with supporting processes such as continuous casting, rolling, heat treatment, welding consumables, inspection, and pressure vessel or linepipe fabrication. Industry product literature from SSAB, Industeel, voestalpine, and JFE consistently describes HIC-resistant steels as sour-service grades produced through special steelmaking practices aimed at improving resistance to hydrogen-induced cracking in wet hydrogen sulfide

environments. In 2025, the global hydrogen-induced cracking resistant steel market had a production capacity of approximately 500,000 tons, sales volume of approximately 434,000 tons, an average price of about USD 2,260 per ton, and gross margins generally ranging from 17% to 28%.

The current market is primarily supported by oil and gas production, natural gas gathering and transmission, refining desulfurization, sour-media processing, and related pressure vessel and pipeline projects, which means demand is driven more by reliability upgrading under severe service conditions than by ordinary steel substitution. Public technical materials consistently show that hydrogen-induced cracking resistant steel remains closely tied to wet H<sub>2</sub>S sour service, because these environments promote hydrogen entry into steel and trigger HIC, SSC, and related damage mechanisms. As a result, buyers place greater emphasis on steel cleanliness, inclusion control, segregation reduction, weldability, and third-party qualification testing rather than on strength level alone. Product information from SSAB, JFE, and Nippon Steel all highlights sour service performance, wet H<sub>2</sub>S resistance, NACE/AMPP testing, and clean-steel production, indicating that this is fundamentally a highly engineered and specification-driven niche market.

Future development is likely to focus on suitability for more severe environments and on balancing a broader set of performance requirements. As some oil and gas projects move toward higher H<sub>2</sub>S partial pressures, higher pressure conditions, and more complex transport environments, market expectations are shifting from basic crack resistance toward a combination of strength, controlled hardness, weld and heat-affected-zone stability, through-thickness consistency, and long-term integrity. Nippon Steel's 2025 technical report states that SSC has still occurred in sour-resistant line pipes used in high-pressure H<sub>2</sub>S environments, which is pushing the industry to develop next-generation steels by addressing hardness criteria, hydrogen absorption, microstructure, and manufacturing technology together. JFE's published work similarly emphasizes that achieving both strength and HIC resistance requires deeper control over inclusions, segregation, and microstructure. This suggests that future competition will increasingly depend on integrated metallurgical design and project validation capability rather than on a single steel grade alone.

The main market drivers include continued development of high-sulfur oil and gas resources, replacement of aging sour-service pipelines and vessels, lower tolerance for failure risk among operators, and tighter testing and design requirements. The main restraints are the high technical threshold, long qualification cycle, strict end-user approval process, and the fact that failures in real service rarely involve HIC alone; they

may also involve SSC, SOHIC, weld-related weaknesses, local hard zones, and fluctuations in the corrosive medium. AMPP's framework for H<sub>2</sub>S-related cracking itself reflects this multi-mechanism complexity, while steelmaker technical publications repeatedly show that HIC resistance cannot be achieved through simple alloy adjustment alone, but depends on full-process control from refining and casting to rolling and heat treatment. This gives the segment durable demand and meaningful technical barriers, but also limits the speed at which it can expand compared with standard pressure vessel steel or conventional linepipe steel markets.

This report is a detailed and comprehensive analysis for global Hydrogen-induced Cracking Resistant Steel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Hydrogen-induced Cracking Resistant Steel market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Hydrogen-induced Cracking Resistant Steel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Hydrogen-induced Cracking Resistant Steel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Hydrogen-induced Cracking Resistant Steel market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries  
To assess the growth potential for Hydrogen-induced Cracking Resistant Steel

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hydrogen-induced Cracking Resistant Steel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include Proterial, Nippon Steel, ArcelorMittal, POSCO, ThyssenKrupp, Voestalpine, Baosteel Group, Masteel, U.S. Steel, Tata Steel, etc.

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

## **Market Segmentation**

Hydrogen-induced Cracking Resistant Steel market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Chromium Molybdenum Steels

Austenitic Stainless Steels

Other

### Market segment by Product Form

Plate Steel

Heavy Plate Steel

Line Pipe Steel

Pressure Vessel Steel

## Market segment by Sour Service Severity

Mild Sour Service Steel

Standard Sour Service Steel

Severe Sour Service Steel

## Market segment by Application

Oil and Gas

Refining and Petrochemicals

Hydrogen Storage and Transport

Power and Nuclear

Others

## Major players covered

Proterial

Nippon Steel

ArcelorMittal

POSCO

ThyssenKrupp

Voestalpine

Baosteel Group

Masteel

U.S. Steel

Tata Steel

JFE Steel

Ansteel Group

Dillinger Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Hydrogen-induced Cracking Resistant Steel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogen-induced Cracking Resistant Steel, with price, sales quantity, revenue, and global market share of Hydrogen-induced Cracking Resistant Steel from 2021 to 2026.

Chapter 3, the Hydrogen-induced Cracking Resistant Steel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen-induced Cracking Resistant Steel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Hydrogen-induced Cracking Resistant Steel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydrogen-induced Cracking Resistant Steel.

Chapter 14 and 15, to describe Hydrogen-induced Cracking Resistant Steel sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Chromium Molybdenum Steels

1.3.3 Austenitic Stainless Steels

1.3.4 Other

1.4 Market Analysis by Product Form

1.4.1 Overview: Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Product Form: 2021 Versus 2025 Versus 2032

1.4.2 Plate Steel

1.4.3 Heavy Plate Steel

1.4.4 Line Pipe Steel

1.4.5 Pressure Vessel Steel

1.5 Market Analysis by Sour Service Severity

1.5.1 Overview: Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Sour Service Severity: 2021 Versus 2025 Versus 2032

1.5.2 Mild Sour Service Steel

1.5.3 Standard Sour Service Steel

1.5.4 Severe Sour Service Steel

1.6 Market Analysis by Application

1.6.1 Overview: Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Oil and Gas

1.6.3 Refining and Petrochemicals

1.6.4 Hydrogen Storage and Transport

1.6.5 Power and Nuclear

1.6.6 Others

1.7 Global Hydrogen-induced Cracking Resistant Steel Market Size & Forecast

1.7.1 Global Hydrogen-induced Cracking Resistant Steel Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Hydrogen-induced Cracking Resistant Steel Sales Quantity (2021-2032)

1.7.3 Global Hydrogen-induced Cracking Resistant Steel Average Price (2021-2032)

## 2 MANUFACTURERS PROFILES

### 2.1 Proterial

#### 2.1.1 Proterial Details

#### 2.1.2 Proterial Major Business

#### 2.1.3 Proterial Hydrogen-induced Cracking Resistant Steel Product and Services

#### 2.1.4 Proterial Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.1.5 Proterial Recent Developments/Updates

### 2.2 Nippon Steel

#### 2.2.1 Nippon Steel Details

#### 2.2.2 Nippon Steel Major Business

#### 2.2.3 Nippon Steel Hydrogen-induced Cracking Resistant Steel Product and Services

#### 2.2.4 Nippon Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.2.5 Nippon Steel Recent Developments/Updates

### 2.3 ArcelorMittal

#### 2.3.1 ArcelorMittal Details

#### 2.3.2 ArcelorMittal Major Business

#### 2.3.3 ArcelorMittal Hydrogen-induced Cracking Resistant Steel Product and Services

#### 2.3.4 ArcelorMittal Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.3.5 ArcelorMittal Recent Developments/Updates

### 2.4 POSCO

#### 2.4.1 POSCO Details

#### 2.4.2 POSCO Major Business

#### 2.4.3 POSCO Hydrogen-induced Cracking Resistant Steel Product and Services

#### 2.4.4 POSCO Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.4.5 POSCO Recent Developments/Updates

### 2.5 ThyssenKrupp

#### 2.5.1 ThyssenKrupp Details

#### 2.5.2 ThyssenKrupp Major Business

#### 2.5.3 ThyssenKrupp Hydrogen-induced Cracking Resistant Steel Product and Services

#### 2.5.4 ThyssenKrupp Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.5.5 ThyssenKrupp Recent Developments/Updates

### 2.6 Voestalpine

#### 2.6.1 Voestalpine Details

- 2.6.2 Voestalpine Major Business
- 2.6.3 Voestalpine Hydrogen-induced Cracking Resistant Steel Product and Services
- 2.6.4 Voestalpine Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Voestalpine Recent Developments/Updates
- 2.7 Baosteel Group
  - 2.7.1 Baosteel Group Details
  - 2.7.2 Baosteel Group Major Business
  - 2.7.3 Baosteel Group Hydrogen-induced Cracking Resistant Steel Product and Services
  - 2.7.4 Baosteel Group Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 Baosteel Group Recent Developments/Updates
- 2.8 Masteel
  - 2.8.1 Masteel Details
  - 2.8.2 Masteel Major Business
  - 2.8.3 Masteel Hydrogen-induced Cracking Resistant Steel Product and Services
  - 2.8.4 Masteel Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 Masteel Recent Developments/Updates
- 2.9 U.S. Steel
  - 2.9.1 U.S. Steel Details
  - 2.9.2 U.S. Steel Major Business
  - 2.9.3 U.S. Steel Hydrogen-induced Cracking Resistant Steel Product and Services
  - 2.9.4 U.S. Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 U.S. Steel Recent Developments/Updates
- 2.10 Tata Steel
  - 2.10.1 Tata Steel Details
  - 2.10.2 Tata Steel Major Business
  - 2.10.3 Tata Steel Hydrogen-induced Cracking Resistant Steel Product and Services
  - 2.10.4 Tata Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 Tata Steel Recent Developments/Updates
- 2.11 JFE Steel
  - 2.11.1 JFE Steel Details
  - 2.11.2 JFE Steel Major Business
  - 2.11.3 JFE Steel Hydrogen-induced Cracking Resistant Steel Product and Services
  - 2.11.4 JFE Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average

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

2.11.5 JFE Steel Recent Developments/Updates

2.12 Ansteel Group

2.12.1 Ansteel Group Details

2.12.2 Ansteel Group Major Business

2.12.3 Ansteel Group Hydrogen-induced Cracking Resistant Steel Product and Services

2.12.4 Ansteel Group Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Ansteel Group Recent Developments/Updates

2.13 Dillinger Group

2.13.1 Dillinger Group Details

2.13.2 Dillinger Group Major Business

2.13.3 Dillinger Group Hydrogen-induced Cracking Resistant Steel Product and Services

2.13.4 Dillinger Group Hydrogen-induced Cracking Resistant Steel Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Dillinger Group Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: HYDROGEN-INDUCED CRACKING RESISTANT STEEL BY MANUFACTURER**

3.1 Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Manufacturer (2021-2026)

3.2 Global Hydrogen-induced Cracking Resistant Steel Revenue by Manufacturer (2021-2026)

3.3 Global Hydrogen-induced Cracking Resistant Steel Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Hydrogen-induced Cracking Resistant Steel by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Hydrogen-induced Cracking Resistant Steel Manufacturer Market Share in 2025

3.4.3 Top 6 Hydrogen-induced Cracking Resistant Steel Manufacturer Market Share in 2025

3.5 Hydrogen-induced Cracking Resistant Steel Market: Overall Company Footprint Analysis

3.5.1 Hydrogen-induced Cracking Resistant Steel Market: Region Footprint

3.5.2 Hydrogen-induced Cracking Resistant Steel Market: Company Product Type

## Footprint

3.5.3 Hydrogen-induced Cracking Resistant Steel Market: Company Product

Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## 4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Hydrogen-induced Cracking Resistant Steel Market Size by Region

4.1.1 Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Region (2021-2032)

4.1.2 Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Region (2021-2032)

4.1.3 Global Hydrogen-induced Cracking Resistant Steel Average Price by Region (2021-2032)

4.2 North America Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032)

4.3 Europe Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032)

4.4 Asia-Pacific Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032)

4.5 South America Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032)

4.6 Middle East & Africa Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032)

## 5 MARKET SEGMENT BY TYPE

5.1 Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2032)

5.2 Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Type (2021-2032)

5.3 Global Hydrogen-induced Cracking Resistant Steel Average Price by Type (2021-2032)

## 6 MARKET SEGMENT BY APPLICATION

6.1 Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2032)

6.2 Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Application (2021-2032)

6.3 Global Hydrogen-induced Cracking Resistant Steel Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2032)

7.2 North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2032)

7.3 North America Hydrogen-induced Cracking Resistant Steel Market Size by Country

7.3.1 North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2021-2032)

7.3.2 North America Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2032)

8.2 Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2032)

8.3 Europe Hydrogen-induced Cracking Resistant Steel Market Size by Country

8.3.1 Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2021-2032)

8.3.2 Europe Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Hydrogen-induced Cracking Resistant Steel Market Size by Region

9.3.1 Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Hydrogen-induced Cracking Resistant Steel Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2032)

10.2 South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2032)

10.3 South America Hydrogen-induced Cracking Resistant Steel Market Size by Country

10.3.1 South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2021-2032)

10.3.2 South America Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Hydrogen-induced Cracking Resistant Steel Market Size by Country

11.3.1 Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales  
Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Hydrogen-induced Cracking Resistant Steel Consumption  
Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Hydrogen-induced Cracking Resistant Steel Market Drivers

12.2 Hydrogen-induced Cracking Resistant Steel Market Restraints

12.3 Hydrogen-induced Cracking Resistant Steel Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Hydrogen-induced Cracking Resistant Steel and Key  
Manufacturers

13.2 Manufacturing Costs Percentage of Hydrogen-induced Cracking Resistant Steel

13.3 Hydrogen-induced Cracking Resistant Steel Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Hydrogen-induced Cracking Resistant Steel Typical Distributors

14.3 Hydrogen-induced Cracking Resistant Steel Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 3. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Sour Service Severity, (USD Million), 2021 & 2025 & 2032

Table 4. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Proterial Basic Information, Manufacturing Base and Competitors

Table 6. Proterial Major Business

Table 7. Proterial Hydrogen-induced Cracking Resistant Steel Product and Services

Table 8. Proterial Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Proterial Recent Developments/Updates

Table 10. Nippon Steel Basic Information, Manufacturing Base and Competitors

Table 11. Nippon Steel Major Business

Table 12. Nippon Steel Hydrogen-induced Cracking Resistant Steel Product and Services

Table 13. Nippon Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Nippon Steel Recent Developments/Updates

Table 15. ArcelorMittal Basic Information, Manufacturing Base and Competitors

Table 16. ArcelorMittal Major Business

Table 17. ArcelorMittal Hydrogen-induced Cracking Resistant Steel Product and Services

Table 18. ArcelorMittal Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. ArcelorMittal Recent Developments/Updates

Table 20. POSCO Basic Information, Manufacturing Base and Competitors

Table 21. POSCO Major Business

Table 22. POSCO Hydrogen-induced Cracking Resistant Steel Product and Services

Table 23. POSCO Hydrogen-induced Cracking Resistant Steel Sales Quantity

(Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. POSCO Recent Developments/Updates

Table 25. ThyssenKrupp Basic Information, Manufacturing Base and Competitors

Table 26. ThyssenKrupp Major Business

Table 27. ThyssenKrupp Hydrogen-induced Cracking Resistant Steel Product and Services

Table 28. ThyssenKrupp Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. ThyssenKrupp Recent Developments/Updates

Table 30. Voestalpine Basic Information, Manufacturing Base and Competitors

Table 31. Voestalpine Major Business

Table 32. Voestalpine Hydrogen-induced Cracking Resistant Steel Product and Services

Table 33. Voestalpine Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Voestalpine Recent Developments/Updates

Table 35. Baosteel Group Basic Information, Manufacturing Base and Competitors

Table 36. Baosteel Group Major Business

Table 37. Baosteel Group Hydrogen-induced Cracking Resistant Steel Product and Services

Table 38. Baosteel Group Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Baosteel Group Recent Developments/Updates

Table 40. Masteel Basic Information, Manufacturing Base and Competitors

Table 41. Masteel Major Business

Table 42. Masteel Hydrogen-induced Cracking Resistant Steel Product and Services

Table 43. Masteel Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Masteel Recent Developments/Updates

Table 45. U.S. Steel Basic Information, Manufacturing Base and Competitors

Table 46. U.S. Steel Major Business

Table 47. U.S. Steel Hydrogen-induced Cracking Resistant Steel Product and Services

Table 48. U.S. Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market

Share (2021-2026)

Table 49. U.S. Steel Recent Developments/Updates

Table 50. Tata Steel Basic Information, Manufacturing Base and Competitors

Table 51. Tata Steel Major Business

Table 52. Tata Steel Hydrogen-induced Cracking Resistant Steel Product and Services

Table 53. Tata Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Tata Steel Recent Developments/Updates

Table 55. JFE Steel Basic Information, Manufacturing Base and Competitors

Table 56. JFE Steel Major Business

Table 57. JFE Steel Hydrogen-induced Cracking Resistant Steel Product and Services

Table 58. JFE Steel Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. JFE Steel Recent Developments/Updates

Table 60. Ansteel Group Basic Information, Manufacturing Base and Competitors

Table 61. Ansteel Group Major Business

Table 62. Ansteel Group Hydrogen-induced Cracking Resistant Steel Product and Services

Table 63. Ansteel Group Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Ansteel Group Recent Developments/Updates

Table 65. Dillinger Group Basic Information, Manufacturing Base and Competitors

Table 66. Dillinger Group Major Business

Table 67. Dillinger Group Hydrogen-induced Cracking Resistant Steel Product and Services

Table 68. Dillinger Group Hydrogen-induced Cracking Resistant Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Dillinger Group Recent Developments/Updates

Table 70. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Manufacturer (2021-2026) & (Kilotons)

Table 71. Global Hydrogen-induced Cracking Resistant Steel Revenue by Manufacturer (2021-2026) & (USD Million)

Table 72. Global Hydrogen-induced Cracking Resistant Steel Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 73. Market Position of Manufacturers in Hydrogen-induced Cracking Resistant

Steel, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 74. Head Office and Hydrogen-induced Cracking Resistant Steel Production Site of Key Manufacturer

Table 75. Hydrogen-induced Cracking Resistant Steel Market: Company Product Type Footprint

Table 76. Hydrogen-induced Cracking Resistant Steel Market: Company Product Application Footprint

Table 77. Hydrogen-induced Cracking Resistant Steel New Market Entrants and Barriers to Market Entry

Table 78. Hydrogen-induced Cracking Resistant Steel Mergers, Acquisition, Agreements, and Collaborations

Table 79. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 80. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Region (2021-2026) & (Kilotons)

Table 81. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Region (2027-2032) & (Kilotons)

Table 82. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Region (2021-2026) & (USD Million)

Table 83. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Region (2027-2032) & (USD Million)

Table 84. Global Hydrogen-induced Cracking Resistant Steel Average Price by Region (2021-2026) & (US\$/Ton)

Table 85. Global Hydrogen-induced Cracking Resistant Steel Average Price by Region (2027-2032) & (US\$/Ton)

Table 86. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 87. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 88. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Type (2021-2026) & (USD Million)

Table 89. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Type (2027-2032) & (USD Million)

Table 90. Global Hydrogen-induced Cracking Resistant Steel Average Price by Type (2021-2026) & (US\$/Ton)

Table 91. Global Hydrogen-induced Cracking Resistant Steel Average Price by Type (2027-2032) & (US\$/Ton)

Table 92. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 93. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 94. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Application (2021-2026) & (USD Million)

Table 95. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Application (2027-2032) & (USD Million)

Table 96. Global Hydrogen-induced Cracking Resistant Steel Average Price by Application (2021-2026) & (US\$/Ton)

Table 97. Global Hydrogen-induced Cracking Resistant Steel Average Price by Application (2027-2032) & (US\$/Ton)

Table 98. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 99. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 100. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 101. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 102. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 103. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 104. North America Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2021-2026) & (USD Million)

Table 105. North America Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 107. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 108. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 109. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 110. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 111. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 112. Europe Hydrogen-induced Cracking Resistant Steel Consumption Value by

Country (2021-2026) & (USD Million)

Table 113. Europe Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 115. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 116. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 117. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 118. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Region (2021-2026) & (Kilotons)

Table 119. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity by Region (2027-2032) & (Kilotons)

Table 120. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Consumption Value by Region (2027-2032) & (USD Million)

Table 122. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 123. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 124. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 125. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 126. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 127. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 128. South America Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 131. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 132. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 133. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 134. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 135. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 136. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Hydrogen-induced Cracking Resistant Steel Raw Material

Table 139. Key Manufacturers of Hydrogen-induced Cracking Resistant Steel Raw Materials

Table 140. Hydrogen-induced Cracking Resistant Steel Typical Distributors

Table 141. Hydrogen-induced Cracking Resistant Steel Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Hydrogen-induced Cracking Resistant Steel Picture

Figure 2. Global Hydrogen-induced Cracking Resistant Steel Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Hydrogen-induced Cracking Resistant Steel Revenue Market Share by Type in 2025

Figure 4. Chromium Molybdenum Steels Examples

Figure 5. Austenitic Stainless Steels Examples

Figure 6. Other Examples

Figure 7. Global Hydrogen-induced Cracking Resistant Steel Revenue by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Hydrogen-induced Cracking Resistant Steel Revenue Market Share by Product Form in 2025

Figure 9. Plate Steel Examples

Figure 10. Heavy Plate Steel Examples

Figure 11. Line Pipe Steel Examples

Figure 12. Pressure Vessel Steel Examples

Figure 13. Global Hydrogen-induced Cracking Resistant Steel Revenue by Sour Service Severity, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Hydrogen-induced Cracking Resistant Steel Revenue Market Share by Sour Service Severity in 2025

Figure 15. Mild Sour Service Steel Examples

Figure 16. Standard Sour Service Steel Examples

Figure 17. Severe Sour Service Steel Examples

Figure 18. Global Hydrogen-induced Cracking Resistant Steel Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 19. Global Hydrogen-induced Cracking Resistant Steel Revenue Market Share by Application in 2025

Figure 20. Oil and Gas Examples

Figure 21. Refining and Petrochemicals Examples

Figure 22. Hydrogen Storage and Transport Examples

Figure 23. Power and Nuclear Examples

Figure 24. Others Examples

Figure 25. Global Hydrogen-induced Cracking Resistant Steel Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 26. Global Hydrogen-induced Cracking Resistant Steel Consumption Value and

Forecast (2021-2032) & (USD Million)

Figure 27. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity (2021-2032) & (Kilotons)

Figure 28. Global Hydrogen-induced Cracking Resistant Steel Price (2021-2032) & (US\$/Ton)

Figure 29. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Manufacturer in 2025

Figure 30. Global Hydrogen-induced Cracking Resistant Steel Revenue Market Share by Manufacturer in 2025

Figure 31. Producer Shipments of Hydrogen-induced Cracking Resistant Steel by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 32. Top 3 Hydrogen-induced Cracking Resistant Steel Manufacturer (Revenue) Market Share in 2025

Figure 33. Top 6 Hydrogen-induced Cracking Resistant Steel Manufacturer (Revenue) Market Share in 2025

Figure 34. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Region (2021-2032)

Figure 35. Global Hydrogen-induced Cracking Resistant Steel Consumption Value Market Share by Region (2021-2032)

Figure 36. North America Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 37. Europe Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 38. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 39. South America Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 40. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 41. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Type (2021-2032)

Figure 42. Global Hydrogen-induced Cracking Resistant Steel Consumption Value Market Share by Type (2021-2032)

Figure 43. Global Hydrogen-induced Cracking Resistant Steel Average Price by Type (2021-2032) & (US\$/Ton)

Figure 44. Global Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Application (2021-2032)

Figure 45. Global Hydrogen-induced Cracking Resistant Steel Revenue Market Share by Application (2021-2032)

Figure 46. Global Hydrogen-induced Cracking Resistant Steel Average Price by Application (2021-2032) & (US\$/Ton)

Figure 47. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Type (2021-2032)

Figure 48. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Application (2021-2032)

Figure 49. North America Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Country (2021-2032)

Figure 50. North America Hydrogen-induced Cracking Resistant Steel Consumption Value Market Share by Country (2021-2032)

Figure 51. United States Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 52. Canada Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 53. Mexico Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe Hydrogen-induced Cracking Resistant Steel Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 59. France Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Sales Quantity

Market Share by Region (2021-2032)

Figure 66. Asia-Pacific Hydrogen-induced Cracking Resistant Steel Consumption Value

Market Share by Region (2021-2032)

Figure 67. China Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 69. South Korea Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 70. India Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 73. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Type (2021-2032)

Figure 74. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Application (2021-2032)

Figure 75. South America Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Country (2021-2032)

Figure 76. South America Hydrogen-induced Cracking Resistant Steel Consumption Value Market Share by Country (2021-2032)

Figure 77. Brazil Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 78. Argentina Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 79. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Type (2021-2032)

Figure 80. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Application (2021-2032)

Figure 81. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Sales Quantity Market Share by Country (2021-2032)

Figure 82. Middle East & Africa Hydrogen-induced Cracking Resistant Steel Consumption Value Market Share by Country (2021-2032)

Figure 83. Turkey Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 84. Egypt Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 85. Saudi Arabia Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa Hydrogen-induced Cracking Resistant Steel Consumption Value (2021-2032) & (USD Million)

Figure 87. Hydrogen-induced Cracking Resistant Steel Market Drivers

Figure 88. Hydrogen-induced Cracking Resistant Steel Market Restraints

Figure 89. Hydrogen-induced Cracking Resistant Steel Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of Hydrogen-induced Cracking Resistant Steel in 2025

Figure 92. Manufacturing Process Analysis of Hydrogen-induced Cracking Resistant Steel

Figure 93. Hydrogen-induced Cracking Resistant Steel Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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