

# Single Crystal Nickel Based Super Alloys Market in Germany - Manufacturing and Consumption, Outlook and Forecast 2020-2026

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## Abstracts

The single-crystal superalloys are often classified into first, second and third generation alloys. The second and third generations contain about 3 wt% and 6wt% of rhenium respectively. Rhenium is a very expensive addition but leads to an improvement in the creep strength and fatigue resistance. It is argued that some of the enhanced resistance to creep comes from the promotion of rafting by rhenium, which partitions into the  $\gamma$  and makes the lattice misfit more negative. Atomic resolution experiments have shown that the Re occurs as clusters in the  $\gamma$  phase. It is also claimed that rhenium reduces the overall diffusion rate in nickel based superalloys.

This report contains market size and forecasts of Single Crystal Nickel Based Super Alloys in Germany, including the following market information:

Germany Single Crystal Nickel Based Super Alloys Market Revenue, 2015-2020, 2021-2026, (\$ millions)

Germany Single Crystal Nickel Based Super Alloys Market Consumption, 2015-2020, 2021-2026, (MT)

Germany Single Crystal Nickel Based Super Alloys Production Capacity, 2015-2020, 2021-2026, (MT)

Top Five Competitors in Germany Single Crystal Nickel Based Super Alloys Market 2019 (%)

The global Single Crystal Nickel Based Super Alloys market was valued at 126.9 million in 2019 and is projected to reach US\$ 147.4 million by 2026, at a CAGR of 3.8% during the forecast period. While the Single Crystal Nickel Based Super Alloys market size in Germany was US\$ XX million in 2019, and it is expected to reach US\$ XX million by the end of 2026, with a CAGR of XX% during 2020-2026.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Single Crystal Nickel Based Super Alloys manufacturers, suppliers, distributors and industry experts on the

impacts of the COVID-19 pandemic on businesses, with top challenges including ingredients and raw material delays, component and packaging shortages, reduced/cancelled orders from clients and consumers, and closures of production lines in some impacted areas.

This report also analyses and evaluates the COVID-19 impact on Single Crystal Nickel Based Super Alloys production and consumption in Germany

Total Market by Segment:

Germany Single Crystal Nickel Based Super Alloys Market, By Type, 2015-2020, 2021-2026 (\$ millions) & (MT)

Germany Single Crystal Nickel Based Super Alloys Market Segment Percentages, By Type, 2019 (%)

Cast

Wrought

Powder Metallurgy

Germany Single Crystal Nickel Based Super Alloys Market, By Application, 2015-2020, 2021-2026 (\$ millions) & (MT)

Germany Single Crystal Nickel Based Super Alloys Market Segment Percentages, By Application, 2019 (%)

Aerospace & Aircrafts

Land Base Gas Turbine

Others

Competitor Analysis

The report also provides analysis of leading market participants including:

Total Single Crystal Nickel Based Super Alloys Market Competitors Revenues in Germany, by Players 2015-2020 (Estimated), (\$ millions)

Total Single Crystal Nickel Based Super Alloys Market Competitors Revenues Share in Germany, by Players 2019 (%)

Total Germany Single Crystal Nickel Based Super Alloys Market Competitors Sales, by Players 2015-2020 (Estimated), (MT)

Total Germany Single Crystal Nickel Based Super Alloys Market Competitors Sales Market Share by Players 2019 (\$ millions)

Further, the report presents profiles of competitors in the market, including the following:

IHI

## Contents

### **1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS**

- 1.1 Single Crystal Nickel Based Super Alloys Market Definition
- 1.2 Market Segments
  - 1.2.1 Segment by Type
  - 1.2.2 Segment by Application
- 1.3 Germany Single Crystal Nickel Based Super Alloys Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
  - 1.5.1 Research Methodology
  - 1.5.2 Research Process
  - 1.5.3 Base Year
  - 1.5.4 Report Assumptions & Caveats

### **2 COVID-19 IMPACT: GERMANY SINGLE CRYSTAL NICKEL BASED SUPER ALLOYS OVERALL MARKET SIZE**

- 2.1 Germany Single Crystal Nickel Based Super Alloys Market Size: 2020 VS 2026
- 2.2 Germany Single Crystal Nickel Based Super Alloys Revenue, Prospects & Forecasts: 2015-2026
- 2.3 Germany Single Crystal Nickel Based Super Alloys Sales (Consumption): 2015-2026

### **3 COMPANY LANDSCAPE**

- 3.1 Top Single Crystal Nickel Based Super Alloys Players in Germany (including Foreign and Local Companies)
- 3.2 Top Germany Single Crystal Nickel Based Super Alloys Companies Ranked by Revenue
- 3.3 Germany Single Crystal Nickel Based Super Alloys Revenue by Companies (including Foreign and Local Companies)
- 3.4 Germany Single Crystal Nickel Based Super Alloys Sales by Companies (including Foreign and Local Companies)
- 3.5 Germany Single Crystal Nickel Based Super Alloys Price by Manufacturer (2015-2020)
- 3.6 Top 3 and Top 5 Single Crystal Nickel Based Super Alloys Companies in Germany, by Revenue in 2019

3.7 Germany Manufacturers Single Crystal Nickel Based Super Alloys Product Type

3.8 Tier 1, Tier 2 and Tier 3 Single Crystal Nickel Based Super Alloys Players in Germany

3.8.1 List of Germany Tier 1 Single Crystal Nickel Based Super Alloys Companies

3.8.2 List of Germany Tier 2 and Tier 3 Single Crystal Nickel Based Super Alloys Companies

## **4 SIGHTS BY PRODUCT**

4.1 Overview

4.1.1 By Type - Germany Single Crystal Nickel Based Super Alloys Market Size Markets, 2020 & 2026

4.1.2 Cast

4.1.3 Wrought

4.1.4 Powder Metallurgy

4.2 By Type - Germany Single Crystal Nickel Based Super Alloys Revenue & Forecasts

4.2.1 By Type - Germany Single Crystal Nickel Based Super Alloys Revenue, 2015-2020

4.2.2 By Type - Germany Single Crystal Nickel Based Super Alloys Revenue, 2021-2026

4.2.3 By Type - Germany Single Crystal Nickel Based Super Alloys Revenue Market Share, 2015-2026

4.3 By Type - Germany Single Crystal Nickel Based Super Alloys Sales & Forecasts

4.3.1 By Type - Germany Single Crystal Nickel Based Super Alloys Sales, 2015-2020

4.3.2 By Type - Germany Single Crystal Nickel Based Super Alloys Sales, 2021-2026

4.3.3 By Type - Germany Single Crystal Nickel Based Super Alloys Sales Market Share, 2015-2026

4.4 By Type - Germany Single Crystal Nickel Based Super Alloys Price (Manufacturers Selling Prices), 2015-2026

## **5 SIGHTS BY APPLICATION**

5.1 Overview

5.1.1 By Application - Germany Single Crystal Nickel Based Super Alloys Market Size, 2020 & 2026

5.1.2 Aerospace & Aircrafts

5.1.3 Land Base Gas Turbine

5.1.4 Others

5.2 By Application - Germany Single Crystal Nickel Based Super Alloys Revenue &

## Forecasts

5.2.1 By Application - Germany Single Crystal Nickel Based Super Alloys Revenue, 2015-2020

5.2.2 By Application - Germany Single Crystal Nickel Based Super Alloys Revenue, 2021-2026

5.2.3 By Application - Germany Single Crystal Nickel Based Super Alloys Revenue Market Share, 2015-2026

5.3 By Application - Germany Single Crystal Nickel Based Super Alloys Sales & Forecasts

5.3.1 By Application - Germany Single Crystal Nickel Based Super Alloys Sales, 2015-2020

5.3.2 By Application - Germany Single Crystal Nickel Based Super Alloys Sales, 2021-2026

5.3.3 By Application - Germany Single Crystal Nickel Based Super Alloys Sales Market Share, 2015-2026

5.4 By Application - Germany Single Crystal Nickel Based Super Alloys Price (Manufacturers Selling Prices), 2015-2026

## 6 MANUFACTURERS & BRANDS PROFILES

### 6.1 IHI

6.1.1 IHI Corporate Summary

6.1.2 IHI Business Overview

6.1.3 IHI Single Crystal Nickel Based Super Alloys Major Product Offerings

6.1.4 IHI Sales and Revenue in Germany (2015-2020)

6.1.5 IHI Key News

### 6.2 Cannon Muskegon

6.2.1 Cannon Muskegon Corporate Summary

6.2.2 Cannon Muskegon Business Overview

6.2.3 Cannon Muskegon Single Crystal Nickel Based Super Alloys Major Product Offerings

6.2.4 Cannon Muskegon Sales and Revenue in Germany (2015-2020)

6.2.5 Cannon Muskegon Key News

## 7 SINGLE CRYSTAL NICKEL BASED SUPER ALLOYS PRODUCTION CAPACITY, EXPORT AND IMPORT ANALYSIS

7.1 Single Crystal Nickel Based Super Alloys Production Capacity and Value in Germany, Situation Analysis and Prediction, 2015-2026

7.1.1 Germany Single Crystal Nickel Based Super Alloys Production Capacity, 2015-2026

7.1.2 Germany Single Crystal Nickel Based Super Alloys Production 2015-2026

7.1.3 Germany Single Crystal Nickel Based Super Alloys Production Value 2015-2026

7.2 Key Local Single Crystal Nickel Based Super Alloys Manufacturers in Germany

7.2.1 Germany Key Local Single Crystal Nickel Based Super Alloys Manufacturers Production Capacity

7.2.2 Germany Key Local Single Crystal Nickel Based Super Alloys Manufacturers Production

7.2.3 Germany Key Local Single Crystal Nickel Based Super Alloys Manufacturers Production Value

7.2.4 The Proportion of Single Crystal Nickel Based Super Alloys Production Sold in Germany and Sold Other Than Germany by Manufacturers

7.3 Single Crystal Nickel Based Super Alloys Export and Import in Germany

7.3.1 Germany Single Crystal Nickel Based Super Alloys Export Market

7.3.2 Germany Single Crystal Nickel Based Super Alloys Source of Imports

## **8 COVID-19 IMPACT: KEY MARKET TRENDS, OPPORTUNITY, DRIVERS AND RESTRAINTS**

8.1 PESTLE Analysis for Germany Single Crystal Nickel Based Super Alloys Market

8.2 Market Opportunities & Trends

8.3 Market Drivers

8.4 Market Restraints

## **9 COVID-19 IMPACT ON SINGLE CRYSTAL NICKEL BASED SUPER ALLOYS SUPPLY CHAIN ANALYSIS**

9.1 Supply Chain Analysis

9.2 Upstream Market Analysis

9.3 Downstream and Clients Market Analysis

9.4 Marketing Channels Analysis

9.4.1 Marketing Channels

9.4.2 Single Crystal Nickel Based Super Alloys Distributors and Sales Agents in Germany

## **10 CONCLUSION**

## **11 APPENDIX**

11.1 Note

11.2 Examples of Clients

11.3 Disclaimer



## List Of Tables

### LIST OF TABLES

- Table 1. Key Players of Single Crystal Nickel Based Super Alloys in Germany
- Table 2. Top Players in Germany, Ranking by Revenue (2019)
- Table 3. Germany Single Crystal Nickel Based Super Alloys Revenue by Companies, (US\$, Mn), 2015-2020
- Table 4. Germany Single Crystal Nickel Based Super Alloys Revenue Share by Companies, 2015-2020
- Table 5. Germany Single Crystal Nickel Based Super Alloys Sales by Companies, (MT), 2015-2020
- Table 6. Germany Single Crystal Nickel Based Super Alloys Sales Share by Companies, 2015-2020
- Table 7. Key Manufacturers Single Crystal Nickel Based Super Alloys Price (2015-2020) (K USD/MT)
- Table 8. Germany Manufacturers Single Crystal Nickel Based Super Alloys Product Type
- Table 9. List of Germany Tier 1 Single Crystal Nickel Based Super Alloys Companies, Revenue (US\$, Mn) in 2019 and Market Share
- Table 10. List of Germany Tier 2 and Tier 3 Single Crystal Nickel Based Super Alloys Companies, Revenue (US\$, Mn) in 2019 and Market Share
- Table 11. By Type - Single Crystal Nickel Based Super Alloys Revenue in Germany (US\$, Mn), 2015-2020
- Table 12. By Type - Single Crystal Nickel Based Super Alloys Revenue in Germany (US\$, Mn), 2021-2026
- Table 13. By Type - Single Crystal Nickel Based Super Alloys Sales in Germany (MT), 2015-2020
- Table 14. By Type - Single Crystal Nickel Based Super Alloys Sales in Germany (MT), 2021-2026
- Table 15. By Application - Single Crystal Nickel Based Super Alloys Revenue in Germany, (US\$, Mn), 2015-2020
- Table 16. By Application - Single Crystal Nickel Based Super Alloys Revenue in Germany, (US\$, Mn), 2021-2026
- Table 17. By Application - Single Crystal Nickel Based Super Alloys Sales in Germany, (MT), 2015-2020
- Table 18. By Application - Single Crystal Nickel Based Super Alloys Sales in Germany, (MT), 2021-2026
- Table 19. IHI Corporate Summary

Table 20. IHI Single Crystal Nickel Based Super Alloys Product Offerings

Table 21. IHI Single Crystal Nickel Based Super Alloys Sales (MT), Revenue (US\$, Mn) and Average Price (K USD/MT) (2015-2020)

Table 22. Cannon Muskegon Corporate Summary

Table 23. Cannon Muskegon Single Crystal Nickel Based Super Alloys Product Offerings

Table 24. Cannon Muskegon Single Crystal Nickel Based Super Alloys Sales (MT), Revenue (US\$, Mn) and Average Price (K USD/MT) (2015-2020)

Table 25. Single Crystal Nickel Based Super Alloys Production Capacity (MT) of Local Manufacturers in Germany, 2015-2020

Table 26. Single Crystal Nickel Based Super Alloys Production (MT) of Local Manufacturers in Germany, 2015-2020

Table 27. Germany Single Crystal Nickel Based Super Alloys Production Market Share of Local Manufacturers, 2015-2020

Table 28. Single Crystal Nickel Based Super Alloys Production Value (US\$, Mn) of Local Manufacturers in Germany, 2015-2020

Table 29. Germany Single Crystal Nickel Based Super Alloys Production Value Market Share of Local Manufacturers, 2015-2020

Table 30. The Percentage of Single Crystal Nickel Based Super Alloys Production Sold in Germany and Sold Other Than Germany by Manufacturers

Table 31. The Percentage of Single Crystal Nickel Based Super Alloys Production Sold in Germany and Sold Other Than Germany by Manufacturers

Table 32. Dangeguojia Single Crystal Nickel Based Super Alloys Sales (Consumption), Production, Export and Import, 2015-2020

Table 33. Raw Materials and Suppliers

Table 34. Single Crystal Nickel Based Super Alloys Downstream Clients in Germany

Table 35. Single Crystal Nickel Based Super Alloys Distributors and Sales Agents in Germany

## List Of Figures

### LIST OF FIGURES

- Figure 1. Single Crystal Nickel Based Super Alloys Segment by Type
- Figure 2. Single Crystal Nickel Based Super Alloys Segment by Application
- Figure 3. Dangequojia Single Crystal Nickel Based Super Alloys Market Overview: 2020
- Figure 4. Key Caveats
- Figure 5. Single Crystal Nickel Based Super Alloys Market Size in Germany, (US\$, Mn) & (MT): 2020 VS 2026
- Figure 6. Germany Single Crystal Nickel Based Super Alloys Revenue, 2015-2026 (US\$, Mn)
- Figure 7. Single Crystal Nickel Based Super Alloys Sales in Germany: 2015-2026 (MT)
- Figure 8. The Top 3 and 5 Players Market Share by Single Crystal Nickel Based Super Alloys Revenue in 2019
- Figure 9. By Type - Germany Single Crystal Nickel Based Super Alloys Incremental Growth, (US\$, Mn), 2015-2026
- Figure 10. By Type - Germany Single Crystal Nickel Based Super Alloys Market Share, 2015-2020
- Figure 11. By Type - Germany Single Crystal Nickel Based Super Alloys Market Share, 2020-2026
- Figure 12. By Type - Germany Single Crystal Nickel Based Super Alloys Price (K USD/MT), 2015-2026
- Figure 13. By Application - Single Crystal Nickel Based Super Alloys Revenue in Germany (US\$, Mn), 2020 & 2026
- Figure 14. By Application - Germany Single Crystal Nickel Based Super Alloys Market Share, 2015-2020
- Figure 15. By Application - Germany Single Crystal Nickel Based Super Alloys Market Share, 2020-2026
- Figure 16. By Application -Germany Single Crystal Nickel Based Super Alloys Price (K USD/MT), 2015-2026
- Figure 17. Germany Single Crystal Nickel Based Super Alloys Production Capacity (MT), 2015-2026
- Figure 18. Germany Single Crystal Nickel Based Super Alloys Actual Output (MT), 2015-2026
- Figure 19. Germany Single Crystal Nickel Based Super Alloys Production Value (US\$, Mn), 2015-2026
- Figure 20. The Percentage of Germany Single Crystal Nickel Based Super Alloys Export Destination, 2019

Figure 21. The Source of Imports of Germany Single Crystal Nickel Based Super Alloys, 2019

Figure 22. PEST Analysis for Germany Single Crystal Nickel Based Super Alloys Market in 2020

Figure 23. Single Crystal Nickel Based Super Alloys Market Opportunities & Trends in Germany

Figure 24. Single Crystal Nickel Based Super Alloys Market Drivers in Germany

Figure 25. Single Crystal Nickel Based Super Alloys Market Restraints in Germany

Figure 26. Single Crystal Nickel Based Super Alloys Industry Value Chain

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