

# Single Crystal Nickel Based Super Alloys Market in Southeast Asia - 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 Southeast Asia, including the following market information:

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

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

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

Top Five Competitors in Southeast Asia 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 Southeast Asia 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 Southeast Asia

Total Market by Segment:

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

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

Cast

Wrought

Powder Metallurgy

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

Southeast Asia 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 Southeast Asia, by Players 2015-2020 (Estimated), (\$ millions)

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

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

Total Southeast Asia 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 Southeast Asia 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: SOUTHEAST ASIA SINGLE CRYSTAL NICKEL BASED SUPER ALLOYS OVERALL MARKET SIZE**

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

### **3 COMPANY LANDSCAPE**

- 3.1 Top Single Crystal Nickel Based Super Alloys Players in Southeast Asia (including Foreign and Local Companies)
- 3.2 Top Southeast Asia Single Crystal Nickel Based Super Alloys Companies Ranked by Revenue
- 3.3 Southeast Asia Single Crystal Nickel Based Super Alloys Revenue by Companies (including Foreign and Local Companies)
- 3.4 Southeast Asia Single Crystal Nickel Based Super Alloys Sales by Companies (including Foreign and Local Companies)
- 3.5 Southeast Asia 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 Southeast

Asia, by Revenue in 2019

3.7 Southeast Asia 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 Southeast Asia

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

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

## **4 SIGHTS BY PRODUCT**

4.1 Overview

4.1.1 By Type - Southeast Asia 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 - Southeast Asia Single Crystal Nickel Based Super Alloys Revenue & Forecasts

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

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

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

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

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

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

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

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

## **5 SIGHTS BY APPLICATION**

## 5.1 Overview

5.1.1 By Application - Southeast Asia 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 - Southeast Asia Single Crystal Nickel Based Super Alloys Revenue & Forecasts

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

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

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

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

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

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

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

5.4 By Application - Southeast Asia 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 Southeast Asia (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 Southeast Asia (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 Southeast Asia, Situation Analysis and Prediction, 2015-2026

### 7.1.1 Southeast Asia Single Crystal Nickel Based Super Alloys Production Capacity, 2015-2026

#### 7.1.2 Southeast Asia Single Crystal Nickel Based Super Alloys Production 2015-2026

### 7.1.3 Southeast Asia Single Crystal Nickel Based Super Alloys Production Value 2015-2026

## 7.2 Key Local Single Crystal Nickel Based Super Alloys Manufacturers in Southeast Asia

### 7.2.1 Southeast Asia Key Local Single Crystal Nickel Based Super Alloys Manufacturers Production Capacity

### 7.2.2 Southeast Asia Key Local Single Crystal Nickel Based Super Alloys Manufacturers Production

### 7.2.3 Southeast Asia 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 Southeast Asia and Sold Other Than Southeast Asia by Manufacturers

## 7.3 Single Crystal Nickel Based Super Alloys Export and Import in Southeast Asia

### 7.3.1 Southeast Asia Single Crystal Nickel Based Super Alloys Export Market

### 7.3.2 Southeast Asia 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 Southeast Asia 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 Southeast Asia

## **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 Southeast Asia

Table 2. Top Players in Southeast Asia, Ranking by Revenue (2019)

Table 3. Southeast Asia Single Crystal Nickel Based Super Alloys Revenue by Companies, (US\$, Mn), 2015-2020

Table 4. Southeast Asia Single Crystal Nickel Based Super Alloys Revenue Share by Companies, 2015-2020

Table 5. Southeast Asia Single Crystal Nickel Based Super Alloys Sales by Companies, (MT), 2015-2020

Table 6. Southeast Asia 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. Southeast Asia Manufacturers Single Crystal Nickel Based Super Alloys Product Type

Table 9. List of Southeast Asia Tier 1 Single Crystal Nickel Based Super Alloys Companies, Revenue (US\$, Mn) in 2019 and Market Share

Table 10. List of Southeast Asia 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 Southeast Asia (US\$, Mn), 2015-2020

Table 12. By Type - Single Crystal Nickel Based Super Alloys Revenue in Southeast Asia (US\$, Mn), 2021-2026

Table 13. By Type - Single Crystal Nickel Based Super Alloys Sales in Southeast Asia (MT), 2015-2020

Table 14. By Type - Single Crystal Nickel Based Super Alloys Sales in Southeast Asia (MT), 2021-2026

Table 15. By Application - Single Crystal Nickel Based Super Alloys Revenue in Southeast Asia, (US\$, Mn), 2015-2020

Table 16. By Application - Single Crystal Nickel Based Super Alloys Revenue in Southeast Asia, (US\$, Mn), 2021-2026

Table 17. By Application - Single Crystal Nickel Based Super Alloys Sales in Southeast Asia, (MT), 2015-2020

Table 18. By Application - Single Crystal Nickel Based Super Alloys Sales in Southeast Asia, (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 Southeast Asia, 2015-2020

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

Table 27. Southeast Asia 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 Southeast Asia, 2015-2020

Table 29. Southeast Asia 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 Southeast Asia and Sold Other Than Southeast Asia by Manufacturers

Table 31. The Percentage of Single Crystal Nickel Based Super Alloys Production Sold in Southeast Asia and Sold Other Than Southeast Asia 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 Southeast Asia

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

## 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 Southeast Asia, (US\$, Mn) & (MT): 2020 VS 2026
- Figure 6. Southeast Asia Single Crystal Nickel Based Super Alloys Revenue, 2015-2026 (US\$, Mn)
- Figure 7. Single Crystal Nickel Based Super Alloys Sales in Southeast Asia: 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 - Southeast Asia Single Crystal Nickel Based Super Alloys Incremental Growth, (US\$, Mn), 2015-2026
- Figure 10. By Type - Southeast Asia Single Crystal Nickel Based Super Alloys Market Share, 2015-2020
- Figure 11. By Type - Southeast Asia Single Crystal Nickel Based Super Alloys Market Share, 2020-2026
- Figure 12. By Type - Southeast Asia Single Crystal Nickel Based Super Alloys Price (K USD/MT), 2015-2026
- Figure 13. By Application - Single Crystal Nickel Based Super Alloys Revenue in Southeast Asia (US\$, Mn), 2020 & 2026
- Figure 14. By Application - Southeast Asia Single Crystal Nickel Based Super Alloys Market Share, 2015-2020
- Figure 15. By Application - Southeast Asia Single Crystal Nickel Based Super Alloys Market Share, 2020-2026
- Figure 16. By Application -Southeast Asia Single Crystal Nickel Based Super Alloys Price (K USD/MT), 2015-2026
- Figure 17. Southeast Asia Single Crystal Nickel Based Super Alloys Production Capacity (MT), 2015-2026
- Figure 18. Southeast Asia Single Crystal Nickel Based Super Alloys Actual Output (MT), 2015-2026
- Figure 19. Southeast Asia Single Crystal Nickel Based Super Alloys Production Value (US\$, Mn), 2015-2026
- Figure 20. The Percentage of Southeast Asia Single Crystal Nickel Based Super Alloys

Export Destination, 2019

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

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

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

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

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

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

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