

Single Crystal Nickel Based Super Alloys Market in US - 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 γ and makes the lattice misfit more negative. Atomic resolution experiments have shown that the Re occurs as clusters in the γ 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 US, including the following market information:

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

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

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

Top Five Competitors in US 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 US 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 US

Total Market by Segment:

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

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

Cast

Wrought

Powder Metallurgy

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

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

Total Single Crystal Nickel Based Super Alloys Market Competitors Revenues Share in

US, by Players 2019 (%)

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

Total US 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

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