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Global Nickel-based Superalloys for Aero Engines Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G5A412B60FFFEN.html
Date: April 2026
Pages: 153
Price: US$ 4,480.00 (Single User License)
ID: G5A412B60FFFEN

Abstracts

The global Nickel-based Superalloys for Aero Engines market size is expected to reach $ 5181 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

In 2025, global Nickel-based Superalloys for Aero Engines production reached approximately 12,500 tons?with an average global market price of around US$ 285,000 per ton, and a gross profit margin of approximately 20%-40%. Nickel-based superalloys for aero engines are high-performance alloys engineered to retain strength, creep resistance, and oxidation/corrosion resistance at extreme temperatures. They are primarily used in turbine hot-section components such as blades, vanes, discs, and combustor hardware, enabling higher engine efficiency and durability. These alloys rely on nickel as the matrix and are strengthened by controlled precipitates and solid-solution elements to resist fatigue and thermal cycling. They are produced through vacuum melting, precision casting, forging, and powder metallurgy routes to achieve clean chemistry and stable microstructures. The industrial chain of nickel-based superalloys for aero engines includes upstream nickel and alloying inputs such as cobalt, chromium, aluminum, titanium, tungsten, molybdenum, tantalum, niobium, and rhenium, plus master alloys and high-purity refining consumables. Midstream covers melting and remelting, ingot and billet production, powder atomization, heat treatment, and conversion into castings, forgings, or additively manufactured preforms, supported by inspection and qualification testing. Downstream demand comes from aero-engine manufacturing, component machining and coating, and MRO replacement cycles for turbine parts. Supporting services include metallurgical testing, certification, and failure analysis to ensure reliability.

This report studies the global Nickel-based Superalloys for Aero Engines production,

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demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nickel-based Superalloys for Aero Engines and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Nickel-based Superalloys for Aero Engines that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nickel-based Superalloys for Aero Engines total production and demand, 2021-2032, (Tons)

Global Nickel-based Superalloys for Aero Engines total production value, 2021-2032, (USD Million)

Global Nickel-based Superalloys for Aero Engines production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nickel-based Superalloys for Aero Engines consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nickel-based Superalloys for Aero Engines domestic production, consumption, key domestic manufacturers and share

Global Nickel-based Superalloys for Aero Engines production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nickel-based Superalloys for Aero Engines production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nickel-based Superalloys for Aero Engines production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nickel-based Superalloys for Aero Engines market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

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companies covered as a part of this study include ATI Materials, Precision Castparts Corporation, Carpenter Technologies, Haynes, Aperam, Proterial, Aubert & Duval, Doncasters, VDM Metals, Nippon Yakin Kogyo, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Nickel-based Superalloys for Aero Engines market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Nickel-based Superalloys for Aero Engines Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nickel-based Superalloys for Aero Engines Market, Segmentation by Type:

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Wrought Superalloys

Cast Superalloys

Others

Global Nickel-based Superalloys for Aero Engines Market, Segmentation by Material:

Ni–Cr–Fe-based

Ni–Mo–Fe-based

Others

Global Nickel-based Superalloys for Aero Engines Market, Segmentation by Application:

Civilian

Military

Companies Profiled:

ATI Materials

Precision Castparts Corporation

Carpenter Technologies

Haynes

Aperam

Proterial

Aubert & Duval

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Doncasters

VDM Metals

Nippon Yakin Kogyo

CMK Group

Special Metals Corporation

Fushun Special Steel

CISRI Gaona

Zhongke Sannai

Western Superconducting Technologies

Jiangsu Longda Superalloy

Key Questions Answered:

1. How big is the global Nickel-based Superalloys for Aero Engines market?
2. What is the demand of the global Nickel-based Superalloys for Aero Engines market?
3. What is the year over year growth of the global Nickel-based Superalloys for Aero Engines market?
4. What is the production and production value of the global Nickel-based Superalloys for Aero Engines market?
5. Who are the key producers in the global Nickel-based Superalloys for Aero Engines market?
6. What are the growth factors driving the market demand?

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