+357 96 030922
info@marketpublishers.com

Global Nickel-based Superalloys for Aero Engines Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G83DC8B767FEEN.html
Date: April 2026
Pages: 126
Price: US$ 3,480.00 (Single User License)
ID: G83DC8B767FEEN

Abstracts

According to our (Global Info Research) latest study, the global Nickel-based Superalloys for Aero Engines market size was valued at US$ 3659 million in 2025 and is forecast to a readjusted size of US$ 5181 million by 2032 with a CAGR of 5.2% during review period.

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.

+357 96 030922
info@marketpublishers.com

This report is a detailed and comprehensive analysis for global Nickel-based Superalloys for Aero Engines 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 Nickel-based Superalloys for Aero Engines market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Nickel-based Superalloys for Aero Engines market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Nickel-based Superalloys for Aero Engines market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Nickel-based Superalloys for Aero Engines market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), 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 Nickel-based Superalloys for Aero Engines
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 Nickel-based Superalloys for Aero Engines 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 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,

+357 96 030922
info@marketpublishers.com

new product launches or approvals.

Market Segmentation

Nickel-based Superalloys for Aero Engines 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

Wrought Superalloys

Cast Superalloys

Others

Market segment by Material

Ni–Cr–Fe-based

Ni–Mo–Fe-based

Others

Market segment by Application

Civilian

Military

Major players covered

ATI Materials

+357 96 030922
info@marketpublishers.com

Precision Castparts Corporation

Carpenter Technologies

Haynes

Aperam

Proterial

Aubert & Duval

Doncasters

VDM Metals

Nippon Yakin Kogyo

CMK Group

Special Metals Corporation

Fushun Special Steel

CISRI Gaona

Zhongke Sannai

Western Superconducting Technologies

Jiangsu Longda Superalloy

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)

+357 96 030922
info@marketpublishers.com

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 Nickel-based Superalloys for Aero Engines product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nickel-based Superalloys for Aero Engines, with price, sales quantity, revenue, and global market share of Nickel-based Superalloys for Aero Engines from 2021 to 2026.

Chapter 3, the Nickel-based Superalloys for Aero Engines competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nickel-based Superalloys for Aero Engines 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 Nickel-based Superalloys for Aero Engines 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 Nickel-based Superalloys for Aero Engines.

Chapter 14 and 15, to describe Nickel-based Superalloys for Aero Engines sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Nickel-based Superalloys for Aero Engines Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G83DC8B767FEEN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G83DC8B767FEEN.html