

Superalloys Market by Base Material (Nickel-Based, Iron-Based, and Cobalt-Base) and Application (Aerospace, Industrial Gas Turbine, Automotive, Oil & Gas, Industrial, and Others) - Global Opportunity Analysis and Industry Forecast, 2017-2023

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Abstracts

The global superalloys market was valued at \$4,158 million in 2016, and is projected to reach \$7,677 million by 2023, growing at a CAGR of 8.9% from 2017 to 2023.

Superalloys are also referred to as high-temperature alloys, as they maintain their strength and toughness at elevated temperature. These alloys possess properties such as high mechanical strength, creep resistance, significant surface stability, and corrosion & oxidation resistance at high temperature. They are used in range of applications such as petrochemical processing, power plants, and oil & gas industries. They are majorly applicable in commercial & military jet engines, auxiliary power units, power turbines, defense systems, locomotive engines, and others.

In 2016, North America and Europe were the leading regions, in terms of both value and volume, owing the rise in utilization of aircrafts and significant growth in aerospace industry. Superalloys facilitate improved operating efficiency and reduced environmental emissions that, which lead to increase in use of these alloys in gas turbines and oil & gas equipment. The market is driven by the rise in need for high strength materials in aerospace and oil & gas industries that can withstand high temperature and resist creeping.

The superalloys market is segmented based on base material, application, and geography. On the basis of base material, the market is divided nickel-based, cobalt-based, and iron-based superalloys. Applications covered in the study include aerospace, industrial gas turbine, automotive, oil & gas, industrial, and others. Geographically, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

On June 17, 2015, Allegheny Technologies Incorporated expanded its nickel-based superalloy's manufacturing capacity to cater to the growing demands from aerospace jet engine and oil & gas markets. The company has invested around \$70 million for this expansion which helped the company to strengthen its position in the global market.

Major market players are as follows:

Allegheny Technologies Incorporated (ATI)

Haynes International

Special Metals Corporation

Aperam

Carpenter Technology

AMG Superalloys

Doncasters

Nippon Yakin Kogyo

Universal Stainless

Danyang City Kaixin Alloy Material Co. Ltd.

Supreme Special Steel Pvt. Ltd.

TI Steel Private Ltd.

AcmeCast

Balaji Superalloys

KEY MARKET BENEFITS

This report provides an extensive analysis of the current & emerging market

trends and dynamics of the global superalloys market.

In-depth analysis of all regions is conducted by constructing market estimations for key segments between 2017 and 2023, which assist to identify the prevailing opportunities.

The report assists to understand the strategies adopted by the companies for market expansion.

This study evaluates the competitive landscape to understand the market scenario across various regions.

Extensive analysis is conducted by following key player positioning and monitoring the top competitors within the market framework.

KEY MARKET SEGMENTS

By Base Material

Nickel-Based

Iron-Based

Cobalt-Based

By Application

Aerospace

Commercial & cargo

Business

Military

Rotary

Industrial Gas Turbine

Electrical

Mechanical

Automotive

Oil & Gas

Industrial

Others

By Geography

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Other major players in the industry include the following:

Arconic

Fushun Special Steel

VDM Metals

VSMPO-AVISMA

CISRI Gaona

Changcheng Special Steel

IMET Alloys

Mattco Forge Inc.

United Performance Metals

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