

# **Thermal Spray Wire Market By Material Type (Nickel-Based Alloys, Cobalt-Based Alloys, Aluminum Alloys, Stainless Steel, Others), By Process Type (Flame Spray, Cold Spray, Arc Spray, Plasma Spray, Others) By End-Use (Aerospace, Automotive, Oil & Gas, Power Generation, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2029**

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## **Abstracts**

The global thermal spray wire market was valued at \$1.2 billion in 2023, and is projected to reach \$1.9 billion by 2029, growing at a CAGR of 7.5% from 2024 to 2029.

Thermal spray wires are materials used in thermal spraying, a coating process in which melted (or heated) materials are sprayed onto a surface. These wires are typically composed of metals or alloys and are fed through a spray gun, where they are melted by an energy source such as an electric arc, plasma, or combustion flame. The molten droplets are then accelerated toward the target substrate to form a coating. This method allows for the deposition of thin, dense, and durable coatings that enhance surface properties such as wear resistance, corrosion protection, thermal insulation, and electrical conductivity.

The growth of the thermal spray wire market is propelled by expansion in influence of the aerospace and automotive industries. The automotive and aerospace sectors, known for their continuous innovation and demand for high-performance materials, are increasingly turning to thermal spray wires to enhance the durability, wear resistance, and overall performance of critical components. Moreover, mainline carrier fleet in the U.S. is expected to expand by 54 aircraft annually, due to the aging of

the current fleet. Thus, the growing popularity for thermal spray coatings in turbine blades, vanes, and other engine components is expected to boost the growth of thermal spray wires market.

However, high equipment and maintenance costs are expected to face a notable restraint in the thermal spray wires market during the forecast period. Thermal spray equipment, including spray guns, powder feeders, control systems, and auxiliary components, requires a substantial initial capital investment. Contrarily, rise in demand for renewable energy is expected to represent a significant opportunity for the thermal spray wire market, opening new avenues for enhanced performance, efficiency, and application possibilities. Thermal spray coatings applied using thermal spray wires provide protection against corrosion, erosion, and wear, thereby extending the lifespan and enhancing the performance of these critical components. In addition, thermal spray coatings improve aerodynamic efficiency and reduce surface roughness, leading to increased energy generation and operational efficiency of wind turbines. For instance, in May 2022, Greenlane Renewables Inc. secured a contract worth \$6.8 million for a project converting dairy manure into renewable natural gas (RNG) in the U.S. RNG facilities have equipment exposed to corrosive environments, such as biogas reactors, pipes, or tanks. Thermal spray coatings provide corrosion protection by applying a layer of material resistant to chemical degradation.

## Segmentation Overview

The thermal spray wire market is segmented by material type, process type, end use, and region. By material type, the market is divided into nickel-based alloys, cobalt-based alloys, aluminum alloys, stainless steel, and others. As per process type, it is categorized into flame spray, cold spray, arc spray, plasma spray, and others. Depending on end use, the market is divided into aerospace, automotive, oil & gas, power generation, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

By material type, the nickel-based alloys segment is expected to remain the largest type throughout the forecast period.

Depending on process type, the arc spray segment is anticipated to be in the forefront during the projection period.

According to end use, the aerospace segment is projected to witness growth during the forecast period.

Region wise, Asia-Pacific is predicted to dominate the market during the forecast period.

### Competitive Scenario

The key market players in the thermal spray wire market include Astral Alloys Inc, THERMION, OC Oerlikon Management AG, Hagan's AB, Metallisation Limited, Polymet, Parat Tech, Flame Spray Technologies B.V., Praxair S.T. Technology, and Shanghai AlloTech Industrial Co., Ltd. These players have adopted several strategies, including mergers & acquisitions, partnerships, collaborations, and marketing & advertising, to maintain their foothold in the market.

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End user preferences and pain points

Investment Opportunities

Product Benchmarking / Product specification and applications

Upcoming/New Entrant by Regions

Technology Trend Analysis

Consumer Preference and Product Specifications

Market share analysis of players by products/segments

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Import Export Analysis/Data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

SWOT Analysis

Key Market Segments

By Material Type

Nickel-Based Alloys

Cobalt-Based Alloys

Aluminum Alloys

Stainless Steel

Others

By Process Type

Flame Spray

Cold Spray

Arc Spray

Plasma Spray

Others

By End-Use

Aerospace

Automotive

Oil Gas

Power Generation

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Thailand

Malaysia

Indonesia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

UAE

Argentina

Rest of LAMEA

Key Market Players

Astr%li%Alloys Inc

THERMION

OC Oerlikon Management AG

H?gan?s AB

Metallisation Limited

Polymet

Parat Tech

Flame Spray Technologies B.V.

Praxair S.T. Technology

Shanghai AlloTech Industrial Co., Ltd



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