

Global Thermal Spray Powder Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G905F8CD6CBCEN.html>

Date: February 2026

Pages: 149

Price: US\$ 2,980.00 (Single User License)

ID: G905F8CD6CBCEN

Abstracts

Thermal spraying technology is a method of using a certain heat source to heat the thermal spray material to melt or semi-melt, and atomize it through flame flow or external high-speed airflow, and then spray it onto the surface of the substrate (workpiece) to combine with the substrate to form a certain functional coating. Thermal spraying technology creates a special working surface on the surface of ordinary materials, which has a series of functions such as corrosion resistance, wear resistance, friction reduction, high temperature resistance, oxidation resistance, heat insulation, insulation, conductivity, and microwave radiation protection, so as to achieve the purpose of saving materials and energy. This special working surface is called a coating, and the working method of making the coating is called thermal spraying. This report mainly studies the thermal spray powder market. Thermal spray powder is the ceramic powder and metal/alloy powder commonly used in thermal spraying technology, which can provide protection for parts against wear, erosion and corrosion. Thermal spraying technology is one of the important components of surface process technology, accounting for about one-third of surface engineering technology. Thermal spraying technology has been widely used in various fields, including aerospace, steel, petrochemical, anti-corrosion construction, machinery, light industry, textile, paper printing, power generation, navigation and other industries, with huge market potential. The growth of these downstream demands has promoted the market growth of thermal spray powder. At present, China's economy is developing rapidly, stably and healthily, which is a good stage of economic development since the founding of the People's Republic of China. As a high-tech industry and multidisciplinary cross-cutting and marginal technology, thermal spraying is extremely sensitive to the development status of the national economy, especially the development status of the manufacturing industry and the adjustment of product structure, and has a strong dependence. Such an economic situation has promoted the development of the thermal

spray powder market.

The global Thermal Spray Powder market size was estimated at USD 3634.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 3.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Thermal Spray Powder market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Thermal Spray Powder market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Thermal Spray Powder market.

Global Thermal Spray Powder Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse

customer groups.

Key Company

Oerlikon Group
Praxair Surface Technologies
TOCALO
Tosoh
Saint-Gobain
Treibacher Industrie
H?gan?s
Showa Denko
Honeywell International Inc (UOP)
Kennametal
Daiichi Kigenso Kagaku Kogyo
BGRIMM Advanced Materials Science&Technology Co.,Ltd.
Yaan Bestry Performance Materials Co. Ltd.
CHALCO

Market Segmentation (by Type)

Ceramic Powder
Metal/Alloy Powder

Market Segmentation (by Application)

Military
Aerospace
Automotive
Energy
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of

MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Thermal Spray Powder Market

Overview of the regional outlook of the Thermal Spray Powder Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Thermal Spray Powder Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Thermal Spray Powder, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well

as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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