

# Global Plasma Transferred Arc (PTA) Powders Market Growth 2026-2032

<https://marketpublishers.com/r/G0D6BF2BDF17EN.html>

Date: April 2026

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: G0D6BF2BDF17EN

## Abstracts

The global Plasma Transferred Arc (PTA) Powders market size is predicted to grow from US\$ 68.79 million in 2025 to US\$ 132 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

Plasma Transferred Arc (PTA) Powders are welding materials used in the PTA welding process. PTA welding is a high-energy-density heat source welding technology that uses a plasma arc to generate high temperatures, heat the welding material until it melts, and spray it onto the surface of the workpiece to form a coating or repair the workpiece. PTA powder is mixed with base metal powder and additive powder through powder spraying equipment and sprayed through PTA welding equipment. During the PTA welding process, the plasma arc generates high temperatures, causing the sprayed powder to melt and spray onto the surface of the workpiece, forming a dense, wear-resistant coating. Currently, the typical models of Plasma Transferred Arc (PTA) Powders include Hogan's Surfite series, etc.

The Plasma Transferred Arc (PTA) Powders market is growing steadily due to increased demand for high-performance surface coating solutions in industries such as aerospace, automotive, oil & gas, and power generation. PTA powders, often composed of materials like tungsten carbide, nickel-based alloys, and cobalt-based alloys, are essential for enhancing wear resistance, corrosion resistance, and thermal stability of metal components. The rising focus on extending the lifespan of industrial parts and reducing maintenance costs is driving adoption of PTA technology. Additionally, advancements in powder metallurgy and thermal spray techniques are broadening application possibilities, further supporting market expansion globally.

LP Information, Inc. (LPI) 's newest research report, the "Plasma Transferred Arc (PTA)

Powders Industry Forecast? looks at past sales and reviews total world Plasma Transferred Arc (PTA) Powders sales in 2025, providing a comprehensive analysis by region and market sector of projected Plasma Transferred Arc (PTA) Powders sales for 2026 through 2032. With Plasma Transferred Arc (PTA) Powders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Plasma Transferred Arc (PTA) Powders industry.

This Insight Report provides a comprehensive analysis of the global Plasma Transferred Arc (PTA) Powders landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Plasma Transferred Arc (PTA) Powders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Plasma Transferred Arc (PTA) Powders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Plasma Transferred Arc (PTA) Powders and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Plasma Transferred Arc (PTA) Powders.

This report presents a comprehensive overview, market shares, and growth opportunities of Plasma Transferred Arc (PTA) Powders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cobalt Based

Iron Based

Nickel Based

Others

Segmentation by Application:

Aviation

Automotive

Mining

Petrochemical

Energy

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hoganas

Kennametal Stellite

Castolin Eutectic

ESAB (Stoody)

CHEM TECH Korea

Wall Colmonoy

Surface Engineering Alloy

Linbraz

Metco Joining & Cladding

Linde AMT

DURUM Verschleißschutz

Sentes-BIR

Deha Endustri Kaplama

HLPOWDER

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Plasma Transferred Arc (PTA) Powders market?

What factors are driving Plasma Transferred Arc (PTA) Powders market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Plasma Transferred Arc (PTA) Powders market opportunities vary by end market size?

How does Plasma Transferred Arc (PTA) Powders break out by Type, by Application?

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