

# Global Thermal Protection Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G4A1649ED7D6EN.html>

Date: February 2026

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: G4A1649ED7D6EN

## Abstracts

According to our (Global Info Research) latest study, the global Thermal Protection Material market size was valued at US\$ 10130 million in 2025 and is forecast to a readjusted size of US\$ 16431 million by 2032 with a CAGR of 7.1% during review period.

Thermal Protection Materials (TPMs) are engineered materials designed to shield structures, components, or living systems from extreme heat, thermal shock, and high heat flux by insulating, reflecting, ablating, or actively dissipating thermal energy; they are critical in aerospace (re-entry vehicles, rocket motors), energy (turbines, furnaces), transportation (EV battery fire barriers), electronics, and industrial safety applications. The supply chain typically starts upstream with raw materials such as ceramic oxides (alumina, zirconia, hafnia), carbon fibers and fabrics, silica fibers, aramid fibers, phenolic and silicone resins, and specialty additives; midstream processing converts these into functional forms including ceramic matrix composites (CMCs), carbon-carbon composites, ablative composites, thermal barrier coatings (APS, EB-PVD, SPS), aerogels, insulation felts, and molded panels; downstream players integrate these materials into finished components or systems (tiles, liners, coatings, shields, blankets), followed by qualification, testing, and certification—often a major bottleneck due to aerospace, defense, or automotive safety standards—before final delivery to OEMs and end-user industries. In 2025, global thermal protection material output reached about 1.9 million tons, backed by roughly 2.4 million tons of annual capacity, with unit prices ranging from USD 4,500 to 9,000 per ton, and gross margins of approximately 35%.

This report is a detailed and comprehensive analysis for global Thermal Protection Material 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 Thermal Protection Material market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Thermal Protection Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Thermal Protection Material 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 Thermal Protection Material 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 Thermal Protection Material
- 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 Thermal Protection Material 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 Saint-Gobain (France), Oerlikon Metco (Switzerland), H.C. Starck (Germany), BASF (Germany), PPG Industries (USA), Honeywell (USA), 3M Company (USA), CoorsTek (USA), Kaneka (Japan), Chromalloy (USA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Thermal Protection Material 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

Insulating TPMs

Ablative TPM

Reflective TPM

### Market segment by Service Temperature

Low Temperature (2,000 °C)

### Market segment by Application

Automotive

Marine & Offshore

Aerospace & Defense

Construction

Industrial

Power & Energy System

Others

### Major players covered

Saint-Gobain (France)

Oerlikon Metco (Switzerland)

H.C. Starck (Germany)

BASF (Germany)

PPG Industries (USA)

Honeywell (USA)

3M Company (USA)

CoorsTek (USA)

Kaneka (Japan)

Chromalloy (USA)

Metallic Bonds (UK)

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)

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 Thermal Protection Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Protection Material, with price, sales quantity, revenue, and global market share of Thermal Protection Material from 2021 to 2026.

Chapter 3, the Thermal Protection Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Protection Material 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 Thermal Protection Material 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 Thermal Protection Material.

Chapter 14 and 15, to describe Thermal Protection Material sales channel, distributors, customers, research findings and conclusion.

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