

Global Thermal Barrier Coatings (TBCs) Market 2022 - Industry Briefing

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Abstracts

Thermal barrier coatings (TBCs) are coatings that insulate a metal component (such as the gas turbine or engines of an aircraft) and allow it to operate under extremely high temperatures. These 100 μ m to 2 mm thick coatings of thermally insulating materials serve to insulate components from large and prolonged heat loads and can sustain an appreciable temperature difference between the load-bearing alloys and the coating surface. In doing so, these coatings can allow for higher operating temperatures while limiting the thermal exposure of structural components, extending part life by reducing oxidation and thermal fatigue. According to Gen Consulting Company, the global thermal barrier coatings market size is expected to increase from USD 1,104 million in 2021 to USD 1,492 million by 2028, garnering a CAGR of 4.4% over the evaluated period.

This industry report offers market estimates of the global market, followed by a detailed analysis of the process, end user, and region. The global market data on thermal barrier coatings can be segmented by process: air plasma spray (APS), electron beam-physical vapor deposition (EB-PVD), high velocity oxygen fuel (HVOF), low pressure plasma spray (LPPS), others. Thermal barrier coatings market is further segmented by end user: aerospace, automotive, oil and gas, power generation, others. The aerospace segment held the largest revenue share in 2021. Based on region, the thermal barrier coatings market is segmented into: Asia Pacific, Europe, North America, Rest of the World (RoW). Globally, North America made up the largest share of the thermal barrier coatings market.

The global thermal barrier coatings market is highly competitive. As of 2021, the major players in the global thermal barrier coatings market were A&A Thermal Spray Coatings, Chromalloy Gas Turbine LLC, Flame Spray Technologies B.V., Hannecard

Roller Coatings Inc., Hayden Corporation, Metallic Bonds Ltd., Northwest Mettech Corporation, Praxair Surface Technologies Inc., Swain Tech Coatings Inc., United Coatings Technologies Co. Ltd., Zircotec Limited.

The data-centric report focuses on market trends, status and outlook for segments. With comprehensive market assessment across the major geographies, the report is a valuable asset for the existing players, new entrants and the future investors.

Why buy this report?

Get a detailed picture of the Global Thermal Barrier Coatings Market

Identify segments/areas to invest in over the forecast period in the Global Thermal Barrier Coatings Market

Understand the competitive environment, the market's leading players

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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Contents

PART 1. SUMMARY

PART 2. INTRODUCTION

Study period
Geographical scope
Market segmentation

PART 3. THERMAL BARRIER COATINGS MARKET OVERVIEW

PART 4. MARKET BREAKDOWN BY PROCESS

Air plasma spray (APS)
Electron beam-physical vapor deposition (EB-PVD)
High velocity oxygen fuel (HVOF)
Low pressure plasma spray (LPPS)
Others

PART 5. MARKET BREAKDOWN BY END USER

Aerospace
Automotive
Oil and gas
Power generation
Others

PART 6. MARKET BREAKDOWN BY REGION

Asia Pacific
Europe
North America
Rest of the World (RoW)

PART 7. KEY COMPANIES

A&A Thermal Spray Coatings
Chromalloy Gas Turbine LLC

Flame Spray Technologies B.V.
Hannecard Roller Coatings, Inc.
Hayden Corporation
Metallic Bonds, Ltd.
Northwest Mettech Corporation
Praxair Surface Technologies, Inc.
Swain Tech Coatings, Inc.
United Coatings Technologies Co., Ltd.
Zircotec Limited

PART 8. METHODOLOGY

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