

Coated Abrasive Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Aluminum Oxide, Silicon Carbide, Zirconia Aluminum Oxide, Ceramic Aluminum Oxide, Garnet, Emery), By Application (Metalworking, Woodworking, Automotive, Electronic & Semiconductors, Aerospace & Defense, Others), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/C627D01A428CEN.html>

Date: May 2026

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: C627D01A428CEN

Abstracts

The global coated abrasive market is projected to expand significantly, rising from USD 11.09 billion in 2025 to USD 15.99 billion by 2031, demonstrating a compound annual growth rate of 6.29%. These composite materials, which consist of abrasive grains adhered to flexible backings like paper, cloth, or film, are crucial for a variety of sanding, grinding, and polishing tasks. This growth is predominantly fueled by the strong performance and expansion of the automotive and aerospace industries, both of which require precise surface finishing for optimal component function and aesthetic appeal. Additionally, the increasing demand for advanced metal fabrication in the medical device and electronics sectors strongly supports the ongoing need for abrasive products such as belts, discs, and sheets.

Nevertheless, the industry contends with a major hurdle: the unpredictable nature of raw material supply chains, which leads to unstable production expenses. Coated abrasive manufacturers frequently depend on imported mineral inputs, leaving them susceptible to disruptions from trade issues and geopolitical shifts. For instance, the U.S. Geological Survey reported a 5% decline in the import of abrasive silicon carbide into the United States in 2024 compared to the prior year, highlighting the consistent fluctuations in the

availability of vital raw materials. This inconsistent supply of essential abrasive grains presents an ongoing threat to manufacturing regularity and the profitability of global producers.

Market Driver

The primary driver for the coated abrasive market is the growth within the global automotive manufacturing and refinishing industries, which generates substantial demand for precision finishing products essential for engine parts, body smoothing, and paint preparation. The ongoing shift toward electric vehicles has amplified the requirement for high-tolerance surface finishing to minimize noise and vibration, thereby increasing the use of fine-grit abrasive sheets and discs. As reported by the European Automobile Manufacturers' Association (ACEA) in March 2025, global car production reached 75.5 million units in 2024, highlighting the enormous production scale that necessitates continuous abrasive inputs. This consistent manufacturing volume ensures a stable base demand for sanding and grinding consumables crucial for both initial vehicle assembly and subsequent refinishing.

Concurrently, the increasing pace of construction and infrastructure development projects is significantly boosting market expansion, particularly through the need for products used in floor sanding, wall smoothing, and structural steel fabrication. Coated abrasives are vital for surface preparation in both residential and commercial construction, as well as for maintaining heavy construction equipment. Saint-Gobain's 'Recent Results and Outlook' presentation in October 2025 noted an 18.0% dynamic growth in local currencies for their construction chemicals segment, fueled by infrastructure projects, which reflects strong building activity requiring surface preparation. Moreover, broader industrial recovery is observable; the VDMA Plastics and Rubber Machinery Association reported a 5% increase in sales for the first half of 2025 compared to the prior year, signaling renewed impetus in the machinery sector that heavily relies on abrasive solutions for equipment production.

Market Challenge

A significant obstacle to the growth of the global coated abrasive market is the instability of raw material supply chains, which leads to fluctuating production costs. Producers in this industry are heavily reliant on a consistent supply of imported mineral grains and substrate materials to meet the exacting specifications of clients in the automotive and aerospace sectors. Disruptions to these supply lines, caused by geopolitical changes or trade conflicts, immediately result in unpredictable input availability, making production

planning exceedingly difficult. This inherent unpredictability compels manufacturers to operate with uncertain profit margins, frequently absorbing sudden cost increases to retain long-term contracts. As a direct consequence, capital that might otherwise be invested in expanding facilities or upgrading technology is instead redirected to manage operational variations, thereby impeding the market's overall advancement.

The financial consequences of this supply chain instability are evident in recent industrial data monitoring manufacturing input expenses. For example, the Institute for Supply Management reported in December 2025 that the manufacturing Prices Index stood at 58.5 percent, signifying that raw material costs for industrial producers remained elevated and continued to climb. This persistent rise in the price of crucial inputs forces coated abrasive manufacturers to raise their product prices, which in turn risks reducing demand from price-sensitive end-users and hindering revenue expansion throughout the industry.

Market Trends

The market is undergoing a transformation driven by the adoption of specialized abrasives for robotic finishing systems, as manufacturers increasingly automate processes to achieve consistency and mitigate labor shortages. This trend fuels the demand for durable abrasives capable of withstanding the continuous stress of automated cells without premature tearing or glazing. In contrast to manual methods, robotic applications necessitate products with superior endurance to sustain consistent cut rates over prolonged operational periods. The International Federation of Robotics' 'World Robotics 2024' report in September 2024 indicated that the global operational stock of industrial robots reached an unprecedented 4,281,585 units in 2023, signifying a vast existing infrastructure that is progressively being utilized for automated surface processing.

A clear movement toward sustainable and biodegradable abrasive components is redefining product development, as producers work to meet decarbonization targets and customer environmental objectives. This shift impacts core product formulations by incorporating recycled backings and bio-based resins to reduce ecological footprints. Manufacturers are actively substituting petroleum-derived inputs with circular alternatives to lower their carbon emissions while preserving performance quality. For example, 3M's '2024 Global Impact Report' from June 2024 noted a reduction of 69.8 million pounds in their use of virgin fossil-based plastic since 2021, underscoring the industry-wide push to transition towards renewable material sources for industrial consumables.

Key Market Players

Saint-Gobain Abrasives, Inc.

Fujimi Incorporated

Asahi Diamond Industrial Co., Ltd

Cabot Microelectronics Corporation

Jason Incorporated

Robert Bosch GmbH

Sia Abrasives Industries AG

Carborundum Universal Limited

DowDuPont, Inc.

VSM Abrasives Corporation

Report Scope

In this report, the Global Coated Abrasive Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Coated Abrasive Market, By Type

Aluminum Oxide

Silicon Carbide

Zirconia Aluminum Oxide

Ceramic Aluminum Oxide

Garnet

Emery

Coated Abrasive Market, By Application

Metalworking

Woodworking

Automotive

Electronic & Semiconductors

Aerospace & Defense

Others

Coated Abrasive Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Coated Abrasive Market.

Available Customizations:

Global Coated Abrasive Market report with the given market data, TechSci Research

Coated Abrasive Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (AI...

offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL COATED ABRASIVE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Aluminum Oxide, Silicon Carbide, Zirconia Aluminum Oxide, Ceramic Aluminum Oxide, Garnet, Emery)
 - 5.2.2. By Application (Metalworking, Woodworking, Automotive, Electronic & Semiconductors, Aerospace & Defense, Others)

- 5.2.3. By Region
- 5.2.4. By Company (2025)
- 5.3. Market Map

6. NORTH AMERICA COATED ABRASIVE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Application
 - 6.2.3. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Coated Abrasive Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Application
 - 6.3.2. Canada Coated Abrasive Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Application
 - 6.3.3. Mexico Coated Abrasive Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Application

7. EUROPE COATED ABRASIVE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Application

7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Coated Abrasive Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Application

7.3.2. France Coated Abrasive Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Application

7.3.3. United Kingdom Coated Abrasive Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Application

7.3.4. Italy Coated Abrasive Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Type

7.3.4.2.2. By Application

7.3.5. Spain Coated Abrasive Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Type

7.3.5.2.2. By Application

8. ASIA PACIFIC COATED ABRASIVE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Type

- 8.2.2. By Application
- 8.2.3. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Coated Abrasive Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Application
 - 8.3.2. India Coated Abrasive Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Application
 - 8.3.3. Japan Coated Abrasive Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Application
 - 8.3.4. South Korea Coated Abrasive Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Application
 - 8.3.5. Australia Coated Abrasive Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Application

9. MIDDLE EAST & AFRICA COATED ABRASIVE MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast

- 9.2.1. By Type
- 9.2.2. By Application
- 9.2.3. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Coated Abrasive Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Application
 - 9.3.2. UAE Coated Abrasive Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Application
 - 9.3.3. South Africa Coated Abrasive Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Application

10. SOUTH AMERICA COATED ABRASIVE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Application
 - 10.2.3. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Coated Abrasive Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Application
 - 10.3.2. Colombia Coated Abrasive Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Type

10.3.2.2.2. By Application

10.3.3. Argentina Coated Abrasive Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Type

10.3.3.2.2. By Application

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. GLOBAL COATED ABRASIVE MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. Saint-Gobain Abrasives, Inc.

15.1.1. Business Overview

15.1.2. Products & Services

15.1.3. Recent Developments

- 15.1.4. Key Personnel
- 15.1.5. SWOT Analysis
- 15.2. Fujimi Incorporated
- 15.3. Asahi Diamond Industrial Co., Ltd
- 15.4. Cabot Microelectronics Corporation
- 15.5. Jason Incorporated
- 15.6. Robert Bosch GmbH
- 15.7. Sia Abrasives Industries AG
- 15.8. Carborundum Universal Limited
- 15.9. DowDuPont, Inc.
- 15.10. VSM Abrasives Corporation

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

I would like to order

Product name: Coated Abrasive Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Aluminum Oxide, Silicon Carbide, Zirconia Aluminum Oxide, Ceramic Aluminum Oxide, Garnet, Emery), By Application (Metalworking, Woodworking, Automotive, Electronic & Semiconductors, Aerospace & Defense, Others), By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/C627D01A428CEN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C627D01A428CEN.html>