

**Global Coated Abrasives Market Assessment, By Grain Type [Aluminum Oxide, Silicon Carbide, Zirconia Alumina, Ceramic Alumina, Others], By Product Type [Belts, Discs, Rolls, Sheets, Others], By Backing Material [Cloth, Paper, Fiber, Polyester, Others], By End-user Industry [Construction, Woodworking, Automotive, Aerospace, Metal Working, Others], By Region, Opportunities and Forecast, 2018-2032F**

Market Report | 2025-07-18 | 226 pages | Market Xcel - Markets and Data

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**Report description:**

Global coated abrasives market is projected to witness a CAGR of 5.12% during the forecast period 2025-2032, growing from USD 13.58 billion in 2024 to USD 20.25 billion in 2032 led by growing demand for high surface finishing in different industries such as automotive, construction, and metalworking. In the automotive industry, coated abrasives are utilized to perform better grinding, surface preparation, and polishing to optimize aesthetics and performance. Also, in construction and woodworking, coated abrasives are utilized in sanding and wood finishing. Also, the growth of the market comes from the move toward automation in the manufacturing processes and increased use of environmentally friendly manufacturing processes. Further, the abrasive material technology provides more efficiency and cost reduction, which grows into broader usage across industries.

For instance, in February 2025, Saint-Gobain Abrasive Grains commissioned the new generation Norton abrasive's paradigm wheels for cutting tool market. This product had high-performance grain with paradigm bond technology for higher removal rates. It will provide lower specific cutting energy with around 25% to 50% higher material removal rate and provide better wheel life.

**Technological Innovation in the Coated Abrasives Market**

Coated abrasives market is undergoing a significant transformation, owing to technological breakthroughs. A prime example is the arrival of advanced ceramic abrasives. These aren't just tough; their exceptional hardness and remarkable wear resistance boost cutting speeds and extend tool life. Introduction of engineered shaped ceramic grains also takes place. These are precisely designed particles that optimize cutting efficiency and minimize heat buildup, making them perfect for even the most demanding materials. Resin-bonded abrasives have improvements in their bonding strength and customizability which makes manufacturers

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to craft specialized solutions for a wide array of industries. Abrasive films and belts are also incorporating intricate micro-replicated structures and highly flexible backing materials. This ensures a uniform finish and allows them to conform to complex contours with ease. Looking ahead, sustainable abrasives and digital integration are quickly becoming defining trends, further increasing efficiency and environmental responsibility. These cutting-edge advancements are vital for meeting the ever-increasing demands for precision and productivity in sectors like automotive, aerospace, and electronics. For instance, in November 2023, 3M Company introduced its new Cubitron 3 abrasive technology products. Cubitron 3 consists of fiber disc, sanding belts and cut-off disc which provide automation of equipment production needs and provide better and longer-lasting results.

#### Rising Demand for Automation in the Manufacturing Industry

Growing demand for automation in the manufacturing industry is deeply affecting the growth of the coated abrasives market. Automation enhances precision in abrasive application, leading to higher quality and uniformity in the production process. With developing AI technology, it also supports the application of coated abrasives in automated equipment with efficient material removal, surface refinement, and defect-free finishing. Automotive, aerospace, and electronics industries are now embracing automated grinding, deburring, and polishing systems, demanding high-quality coated abrasives that offer consistency and accuracy in finishing the surface. This automation trend is not only making processes more efficient but also generates the demand for specific abrasives that easily work with robotic equipment. Automation also offers real-time abrasive performance adjustment for maximum productivity and waste minimization. Therefore, the manufacturers are making greater investments in high-tech coated abrasives for application in automated processes, generating growth and development for the market. For instance, in June 2023, to develop the next-generation robotic systems for automating surface finishing process, AV&R Vision & Robotics Inc. and 3M Company partnered. They have developed BF-X 200-c and TF-X 1200 systems for complex and traditional surface finishing processes and incorporate efficient tools and 3M abrasives.

#### Metal Working is Witnessing Enormous Growth

Metalworking is growing with significant rate in the global coated abrasives market because it uses abrasive processes like grinding, cutting, and polishing to a high degree. The metalworking industry depends significantly on abrasives for manufacturing metal products with high quality, ranging from shaping and finishing raw materials to precision in machined parts. The magnitude and intricacy of metalworking processes result in mass consumption of abrasives, as producers need constant and effective solutions to achieve production requirements. The automotive and construction industries are also major contributors to this increase with the growing need for pre-engineered buildings and parts. Advances in abrasive material technology, for instance, in the form of advanced ceramic grains, further improve efficiency and productivity in metalworking operations. Consequently, metalworking continues to be the major influence on the abrasives market, stimulating growth due to its widespread applications and strong demand for specialized abrasives. This is likely to continue with the drive being provided by continuous industrialization and technological progress in manufacturing.

For instance, in September 2023, Tyrolit Group acquired the Acme Holding Company. This acquisition increased the presence of Tyrolit in the North America region and established their seventh manufacturing plant in the United States. It also enhanced the Tyrolit product portfolio in steel, foundry and rail Industries.

#### North America Region Witnessing Phenomenal Growth

North America is witnessing tremendous growth in the market for coated abrasives, most notably in the metal, automotive, and aerospace sectors. Furthermore, the strong manufacturing base of the region through metal machining and fabrication also generates this growth. Abrasives have a pivotal position in metal processing by improving surface finish and operation efficiency in operations such as grinding and polishing. Technology progresses in abrasion grains like nano-scale ceramic grains enhanced the material removing rate and the wear life that have boosted the aerospace and the automobile industries. The advanced grains are resilient and harder, promoting high-speed processing of hardened material. Additionally, collaborations between companies like United Grinding Group and Norton (a brand of Saint-Gobain Abrasives) have persisted in creating high-performance abrasives, facilitating end-users to realize enhanced productivity as well as accuracy. As the end-user industries continue to grow, the application of advanced coated abrasives created for purposes will continue to grow, driving regional market expansion.

For instance, in August 2023, Saint-Gobain Abrasives partnered with Dedeco International Inc. to market its product Sunburst Line of thermoplastic-bonded abrasives to increase the presence in the abrasives industries and enhance their sales in the North

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America region.

Future Market Scenario (2025 - 2032F)

- The coated abrasives market is significantly driven by rising demand from end-use markets such as automotive, construction, metalworking, and woodworking. These end-use markets require quality surface finishes, which are provided by coated abrasives efficiently.
- Advances in abrasive material, such as ceramic and zirconia grains, enhance efficiency and durability, developing high-performance coated abrasives demand across industries.
- Incorporation of coated abrasives in automation enhances productivity and precision in production processes, particularly in automobile and aeronautic industries.
- Growing consumer consciousness and regulatory requirements are compelling firms to develop eco-friendly coated abrasives, on the basis of recyclable content and ecologically sustainable manufacturing processes.

Key Players Landscape and Outlook

Global coated abrasives market is majorly consolidated with key players that compete on innovation and strategic growth in a bid to maintain market shares. Players are spending enormous amounts of money on research and development to create tomorrow's abrasive material with better quality, strength, and cost. Increased focus on green initiatives has also given the room for the manufacture of sustainable abrasives because of the increase in environmental regulations and customers requesting green products. Apart from product innovation, global players are also growing their global presence through mergers, acquisitions, and alliances to consolidate their supply chains and enhance distribution networks. Implementation of cutting-edge manufacturing technologies and digital platforms is allowing these players to leverage the booming demand from sectors such as automotive, aerospace, metal fabrication, and wood working.

For instance, in July 2024, Grindwell Norton Abrasives (GNO) unveiled abrasive solutions driven by advanced technology. These innovations include unique Industrial IoT (IIoT)-based Industry 4.0 grinding solutions designed for both manual and automated processes, seamlessly integrating digital technology with sophisticated grinding analytics. In another instance, in May 2023, Sak Abrasives Inc., a subsidiary of Sak Industries Private Ltd, acquired Jowitt & Rodgers Co, a leading manufacturer of resin bonded grinding wheels, discs, and segments in Philadelphia, Pennsylvania.

## Table of Contents:

- 1.□ Project Scope and Definitions
- 2.□ Research Methodology
- 3.□ Impact of U.S. Tariffs
- 4.□ Executive Summary
- 5.□ Voice of Customers
  - 5.1.□ Mode of Brand Awareness
  - 5.2.□ Factors Considered in Purchase Decisions
    - 5.2.1.□ Performance and Application Suitability
    - 5.2.2.□ Cost Efficiency and Lifespan
    - 5.2.3.□ Safety and Environmental Compliance
    - 5.2.4.□ Brand Reputation and Certifications
    - 5.2.5.□ Availability and Ease of Use
- 6.□ Global Coated Abrasives Market Outlook, 2018-2032F
  - 6.1.□ Market Size Analysis & Forecast
    - 6.1.1.□ By Value
  - 6.2.□ Market Share Analysis & Forecast
    - 6.2.1.□ By Grain Type
      - 6.2.1.1.□ Aluminum Oxide
      - 6.2.1.2.□ Silicon Carbide
      - 6.2.1.3.□ Zirconia Alumina

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- 6.2.1.4. □Ceramic Alumina
- 6.2.1.5. □Others
- 6.2.2. □By Product Type
  - 6.2.2.1. □Belts
  - 6.2.2.2. □Discs
  - 6.2.2.3. □Rolls
  - 6.2.2.4. □Sheets
  - 6.2.2.5. □Others
- 6.2.3. □By Backing Material
  - 6.2.3.1. □Cloth
  - 6.2.3.2. □Paper
  - 6.2.3.3. □Fiber
  - 6.2.3.4. □Polyester
  - 6.2.3.5. □Others
- 6.2.4. □By End-user Industry
  - 6.2.4.1. □Construction
  - 6.2.4.2. □Woodworking
  - 6.2.4.3. □Automotive
  - 6.2.4.4. □Aerospace
  - 6.2.4.5. □Metal Working
  - 6.2.4.6. □Others
- 6.2.5. □ By Region
  - 6.2.5.1. □North America
  - 6.2.5.2. □Europe
  - 6.2.5.3. □Asia-Pacific
  - 6.2.5.4. □South America
  - 6.2.5.5. □Middle East and Africa
- 6.2.6. □ By Company Market Share Analysis (Top 5 Companies and Others - By Value, 2024)
- 6.3. □Market Map Analysis, 2024
  - 6.3.1. □ By Grain Type
  - 6.3.2. □ By Product Type
  - 6.3.3. □ By Backing Material
  - 6.3.4. □ By End-user Industry
  - 6.3.5. □ By Region
- 7. □North America Coated Abrasives Market Outlook, 2018-2032F\*
  - 7.1. □Market Size Analysis & Forecast
    - 7.1.1. □ By Value
  - 7.2. □Market Share Analysis & Forecast
    - 7.2.1. □ By Grain Type
      - 7.2.1.1. □Aluminum Oxide
      - 7.2.1.2. □Silicon Carbide
      - 7.2.1.3. □Zirconia Alumina
      - 7.2.1.4. □Ceramic Alumina
      - 7.2.1.5. □Others
    - 7.2.2. □By Product Type
      - 7.2.2.1. □Belts
      - 7.2.2.2. □Discs

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- 7.2.2.3.□Rolls
- 7.2.2.4.□Sheets
- 7.2.2.5.□Others
- 7.2.3.□By Backing Material
- 7.2.3.1.□Cloth
- 7.2.3.2.□Paper
- 7.2.3.3.□Fiber
- 7.2.3.4.□Polyester
- 7.2.3.5.□Others
- 7.2.4.□By End-user Industry
- 7.2.4.1.□Construction
- 7.2.4.2.□Woodworking
- 7.2.4.3.□Automotive
- 7.2.4.4.□Aerospace
- 7.2.4.5.□Metal Working
- 7.2.4.6.□Others
- 7.2.5.□ By Country Share
- 7.2.5.1.□United States
- 7.2.5.2.□Canada
- 7.2.5.3.□Mexico
- 7.3.□Country Market Assessment
- 7.3.1.□ United States Coated Abrasives Market Outlook, 2018-2032F\*
- 7.3.1.1.□Market Size Analysis & Forecast
- 7.3.1.1.1.□By Value
- 7.3.1.2.□Market Share Analysis & Forecast
- 7.3.1.2.1.□By Grain Type
- 7.3.1.2.1.1.□Aluminum Oxide
- 7.3.1.2.1.2.□Silicon Carbide
- 7.3.1.2.1.3.□Zirconia Alumina
- 7.3.1.2.1.4.□Ceramic Alumina
- 7.3.1.2.1.5.□Others
- 7.3.1.2.2.□ By Product Type
- 7.3.1.2.2.1.□Belts
- 7.3.1.2.2.2.□Discs
- 7.3.1.2.2.3.□Rolls
- 7.3.1.2.2.4.□Sheets
- 7.3.1.2.2.5.□Others
- 7.3.1.2.3.□By Backing Material
- 7.3.1.2.3.1.□Cloth
- 7.3.1.2.3.2.□Paper
- 7.3.1.2.3.3.□Fiber
- 7.3.1.2.3.4.□Polyester
- 7.3.1.2.3.5.□Others
- 7.3.1.2.4.□ By End-user Industry
- 7.3.1.2.4.1.□Construction
- 7.3.1.2.4.2.□Woodworking
- 7.3.1.2.4.3.□Automotive

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- 7.3.1.2.4.4. Aerospace
- 7.3.1.2.4.5. Metal Working
- 7.3.1.2.4.6. Others
- 7.3.2. Canada
- 7.3.3. Mexico
- \*All segments will be provided for all regions and countries covered
- 8. Europe Coated Abrasives Market Outlook, 2018-2032F
  - 8.1. Germany
  - 8.2. France
  - 8.3. Italy
  - 8.4. United Kingdom
  - 8.5. Russia
  - 8.6. Netherlands
  - 8.7. Spain
  - 8.8. Turkey
  - 8.9. Poland
- 9. Asia-Pacific Coated Abrasives Market Outlook, 2018-2032F
  - 9.1. India
  - 9.2. China
  - 9.3. Japan
  - 9.4. Australia
  - 9.5. Vietnam
  - 9.6. South Korea
  - 9.7. Indonesia
  - 9.8. Philippines
- 10. South America Coated Abrasives Market Outlook, 2018-2032F
  - 10.1. Brazil
  - 10.2. Argentina
- 11. Middle East and Africa Coated Abrasives Market Outlook, 2018-2032F
  - 11.1. Saudi Arabia
  - 11.2. UAE
  - 11.3. South Africa
- 12. Value Chain Analysis
- 13. Porter's Five Forces Analysis
- 14. PESTLE Analysis
- 15. Pricing Analysis
- 16. Market Dynamics
  - 16.1. Market Drivers
  - 16.2. Market Challenges
- 17. Market Trends and Developments
- 18. Case Studies
- 19. Competitive Landscape
  - 19.1. Competition Matrix of Top 5 Market Leaders
  - 19.2. SWOT Analysis for Top 5 Players
  - 19.3. Key Players Landscape for Top 10 Market Players
    - 19.3.1. Compagnie de Saint-Gobain S.A.
      - 19.3.1.1. Company Details

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- 19.3.1.2. □Key Management Personnel
- 19.3.1.3. □Products and Services
- 19.3.1.4. □Financials (As Reported)
- 19.3.1.5. □Key Market Focus and Geographical Presence
- 19.3.1.6. □Recent Developments/Collaborations/Partnerships/Mergers and Acquisition
- 19.3.2. □Sak Industries Private Ltd
- 19.3.3. □Tyrolit Schleifmittelwerke Swarovski AG & Co KG
- 19.3.4. □3M Company
- 19.3.5. □Robert Bosch GmbH
- 19.3.6. □Noritake Co., Limited
- 19.3.7. □Mirka Ltd
- 19.3.8. □Hermes Schleifmittel GmbH
- 19.3.9. □Deerfos Co., Ltd
- 19.3.10. □Fujimi Incorporated

\*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

- 20. □Strategic Recommendations
- 21. □About Us and Disclaimer

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