

Metal Abrasives Market By Type (Coated Abrasives, Bonded Abrasives, Super Abrasives), By Material Type (Steel, Others), By End-Use (Automotive, Metalworking, Building and Construction, Machinery and Equipment, Other): Global Opportunity Analysis and Industry Forecast, 2023-2032

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Report description:

The global metal abrasives market was valued at \$6.2 billion in 2022, and is projected to reach \$9.6 billion by 2032, growing at a CAGR of 4.6% from 2023 to 2032.

Metal abrasives are utilized in industrial applications for abrading, polishing, and grinding metal surfaces. They are typically composed of minerals, such as silicon carbide, aluminum oxide, or garnet, and are available in various shapes and sizes to suit specific applications. These materials find widespread use in metalworking, automotive, aerospace, and shipbuilding industries. Steel shot is a spherical metal abrasive made from high-carbon steel. It is used to clean, strip, and prepare metal surfaces for coating or painting. Steel shot is commonly used in shot blasting applications, where it is propelled at high speeds using compressed air. Metal abrasives are utilized to cut and grind metal parts. They are also used in various cutting and grinding tools, including grinders, saws, and drills. They are used in various polishing and finishing tools, including sanders, buffers, and polishers.

Steel shot is a spherical abrasive made from high-carbon steel, which is typically used for surface preparation and cleaning in shot blasting applications. The steel grit is a sharp-edged abrasive made from high-carbon steel, which is ideal for surface preparation, rust removal, and paint stripping in blasting applications. Both steel shot and steel grit are durable and long-lasting, making them suitable for heavy-duty applications in various industries.

Super abrasives is the fastest growing segment by type in the metal abrasives market. The most common use of super abrasives is in the manufacturing of cutting tools, such as drills, saw blades, and grinding wheels. These tools are used to cut, shape, and polish a wide range of materials, including metal, ceramics, glass, and composites. Super abrasives are also used in the production of semiconductor wafers and other electronic components, where precision grinding and polishing are critical.

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Marine, oil and gas, and others is the fastest growing segment by end-use industry in the metal abrasives market. Metal surfaces that have been properly prepared with metal abrasives have a rough texture that promotes good adhesion of new coatings. This helps to ensure that the coatings adhere well and last longer, reducing the need for frequent repainting. Metal abrasives are used in a variety of oil and gas applications, including pipeline maintenance and repair, equipment cleaning, and surface preparation for the application of protective coatings.

Metal abrasives are also used in abrasive blasting applications, where they are propelled at high speeds using compressed air. Abrasive blasting is used for surface preparation, rust removal, and paint stripping. Garnet is a versatile abrasive that is useful in a variety of applications, including metalworking, woodworking, and glass working. It is also environmentally friendly, making it an excellent choice for companies looking to reduce their environmental impact. Garnet is also used for sanding and polishing metal surfaces. It is available in various grit sizes and is commonly used for fine finishing applications.

The effectiveness of metal abrasives largely depends on their hardness, which is measured on the Mohs scale. The Mohs scale is a scale of mineral hardness, with values ranging from 1 (softest) to 10 (hardest). Harder abrasives are typically more effective at removing surface imperfections, while softer abrasives are better suited for finishing and polishing.

The metal abrasives is segmented into material, type, and end-use industry. On the basis of materials, the market is bifurcated into steel and others. On the basis of type, the market is divided into coated abrasives, bonded abrasives, and super abrasives. On the basis of end-use industry, the market is categorized into automotive, metalworking, building and constructions, machinery and equipment, and others. Region-wise the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

Growth drivers, restraints, and opportunities are explained in the report to better understand the market dynamics. This report further highlights key areas of investment. In addition, it includes Porter's five forces analysis to understand the competitive scenario of the industry and role of each stakeholder. Value chain analysis for this industry, which includes R&D, components manufacturers, assembly, programming & testing, marketing & sales, customers, and post-sales services, is explained. The report features strategies adopted by key market players to maintain their foothold in the market. Furthermore, it highlights the competitive landscape of the key players to increase their market share and sustain intense competition in the industry.

In addition, the report covers profiles of key industry participants such as 3M Company, Air Blast-Abrasives B.V., Camel Grinding Wheels Works Sarid Ltd, Ervin Industries, Finishing Systems, Inc., KLINGSPOR Abrasives, Inc., Metaltel Steel AbrasiveC10 Co., Noritake Co., Ltd., Saint Gobain, and W Abrasives. In addition these player have adopted several strategies in the market.

In November 2022, Saint-Gobain Abrasives has announced the introduction of Norton Vortex Rapid Prep Non-Woven Flap Discs that last longer and produce significantly increased cutting rates and smear-free finishes simultaneously. Norton Vortex Rapid Prep Type 27 Discs also provide forgiveness and reduced vibration on uneven surfaces for maximum ergonomic use. Discs are offered in 4-1/2" x 7/8" and 4-1/2" x 5/8"-11 sizes in the fine, very fine, medium, and coarse grit.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the metal abrasives market analysis from 2022 to 2032 to identify the prevailing metal abrasives market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the metal abrasives market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global metal abrasives market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By End-Use

- Automotive
- Metalworking
- Building and Construction

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- Machinery and Equipment

- Other

By Type

- Coated Abrasives

- Bonded Abrasives

- Super Abrasives

By Material Type

- Steel

- Others

By Region

- North America

- U.S.

- Canada

- Mexico

- Europe

- Germany

- France

- Italy

- Spain

- UK

- Rest of Europe

- Asia-Pacific

- China

- Japan

- India

- South Korea

- Australia

- Rest of Asia-Pacific

- LAMEA

- Brazil

- Saudi Arabia

- South Africa

- Rest of LAMEA

- Key Market Players

- Ervin Industries

- Camel Grinding Wheels Works Sarid Ltd

- Saint Gobain

- W Abrasives

- Metaltec Steel Abrasive Co.

- Air Blast-Abrasives B.V.

- 3M Company

- Noritake Co., Ltd.

- KLINGSPOR Abrasives, Inc.

- Finishing Systems, Inc.

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