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Global Low Temperature Internal Grinding Wheel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Low Temperature Internal Grinding Wheel market size was valued at US$ 833 million in 2025 and is forecast to a readjusted size of US$ 1323 million by 2032 with a CAGR of 6.8% during review period.

Low temperature internal grinding wheels are grinding tools specifically designed for internal cylindrical grinding, manufactured using low-temperature ceramic binders. They achieve high-precision, high-efficiency finishing of workpiece inner bore surfaces through a glassy phase network formed at relatively low sintering temperatures. The core of its upstream supply chain lies in the supply of abrasives such as alumina, silicon carbide, diamond, and CBN, as well as ceramic binder raw materials such as clay and feldspar. The midstream is the grinding wheel manufacturing stage, where raw materials are processed through batching, mixing, molding, and precision sintering to produce high-precision, high-rigidity internal grinding wheels. Downstream demand comes directly from high-end manufacturing sectors such as automotive engines and transmissions, and aerospace engines. These industries rely on such grinding wheels to achieve micron-level dimensional accuracy, excellent geometry, and surface finish when performing final finishing of high-precision internal bores (such as bearing bores, cylinder bores, and hydraulic valve bores). Their demand is closely synchronized with the capacity and technological upgrading needs of the global precision manufacturing industry. In 2025, the global production of low temperature internal grinding wheels is estimated at 9 million units, with an average selling price of about US$90 per wheel, a gross profit margin of about 45%, and a single production line capacity of about 200,000 units per year.

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The core driving factors for the low temperature internal grinding wheel market can be summarized in the following three points: First, the technological upgrading of the automotive industry: The increasing precision and surface quality requirements for the machining of internal holes such as bearing bores and cylinders in core components such as automotive engines and transmissions are driving the widespread application of low-temperature internal grinding wheels in the automotive manufacturing field. Second, the high-precision demands of the aerospace industry: The micron-level dimensional accuracy and excellent surface finish requirements for internal hole machining in key components such as aero engines make low-temperature internal grinding wheels an indispensable precision machining tool. Third, the performance advantages brought about by technological iteration: Low-temperature ceramic binder technology can form a glass phase network at relatively low sintering temperatures, which can both protect heat-sensitive abrasives such as CBN and achieve strong bonding of the abrasives, meeting the needs of high-precision and high-efficiency machining.

This report is a detailed and comprehensive analysis for global Low Temperature Internal Grinding Wheel 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 Low Temperature Internal Grinding Wheel market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Low Temperature Internal Grinding Wheel market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Low Temperature Internal Grinding Wheel market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Low Temperature Internal Grinding Wheel market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit),

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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 Low Temperature Internal Grinding Wheel

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 Low Temperature Internal Grinding Wheel 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 Abrasives, 3M, Tyrolit Group, Internal Grinding Wheel, Noritake Co., Limited, Radiac Abrasives, PFERD, Coastal Diamond, Renwa Abrasive, Jiangxi Guanyi Abrasives Co., Ltd, etc.

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

Market Segmentation

Low Temperature Internal Grinding Wheel 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

Ordinary Abrasives

Super Abrasives

Market segment by Grinding Wheel Pores

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Large Pores

Micropores

Market segment by Types of Abrasives

Low Temperature CBN Internal Grinding Wheel

Low Temperature Diamond Internal Grinding Wheel

Low Temperature Alumina Internal Grinding Wheel

Low Temperature Silicon Carbide Internal Grinding Wheel

Market segment by Application

Automotive

Aerospace

Other

Major players covered

Saint-Gobain Abrasives

3M

Tyrolit Group

Internal Grinding Wheel

Noritake Co., Limited

Radiac Abrasives

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PFERD

Coastal Diamond

Renwa Abrasive

Jiangxi Guanyi Abrasives Co., Ltd

Ningbo Wanfu Abrasive & Grinding Factory

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 Low Temperature Internal Grinding Wheel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low Temperature Internal Grinding Wheel, with price, sales quantity, revenue, and global market share of Low Temperature Internal Grinding Wheel from 2021 to 2026.

Chapter 3, the Low Temperature Internal Grinding Wheel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Low Temperature Internal Grinding Wheel breakdown data are shown at

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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 Low Temperature Internal Grinding Wheel 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 Low Temperature Internal Grinding Wheel.

Chapter 14 and 15, to describe Low Temperature Internal Grinding Wheel sales channel, distributors, customers, research findings and conclusion.

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