

# Global Low Temperature Internal Grinding Wheel Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Low Temperature Internal Grinding Wheel market size is expected to reach \$ 1323 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

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.

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 studies the global Low Temperature Internal Grinding Wheel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low Temperature Internal Grinding Wheel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Low Temperature Internal Grinding Wheel that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Low Temperature Internal Grinding Wheel total production and demand, 2021-2032, (K Units)

Global Low Temperature Internal Grinding Wheel total production value, 2021-2032, (USD Million)

Global Low Temperature Internal Grinding Wheel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Low Temperature Internal Grinding Wheel consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Low Temperature Internal Grinding Wheel domestic production, consumption, key domestic manufacturers and share

Global Low Temperature Internal Grinding Wheel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Low Temperature Internal Grinding Wheel production by Type, production,

value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Low Temperature Internal Grinding Wheel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Low Temperature Internal Grinding Wheel market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Low Temperature Internal Grinding Wheel market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Low Temperature Internal Grinding Wheel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Temperature Internal Grinding Wheel Market, Segmentation by Type:

Ordinary Abrasives

Super Abrasives

Global Low Temperature Internal Grinding Wheel Market, Segmentation by Grinding Wheel Pores:

Large Pores

Micropores

Global Low Temperature Internal Grinding Wheel Market, Segmentation 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

Global Low Temperature Internal Grinding Wheel Market, Segmentation by Application:

Automotive

Aerospace

Other

**Companies Profiled:**

Saint-Gobain Abrasives

3M

Tyrolit Group

Internal Grinding Wheel

Noritake Co., Limited

Radiac Abrasives

PFERD

Coastal Diamond

Renwa Abrasive

Jiangxi Guanyi Abrasives Co., Ltd

Ningbo Wanfu Abrasive & Grinding Factory

**Key Questions Answered:**

1. How big is the global Low Temperature Internal Grinding Wheel market?
2. What is the demand of the global Low Temperature Internal Grinding Wheel market?
3. What is the year over year growth of the global Low Temperature Internal Grinding Wheel market?
4. What is the production and production value of the global Low Temperature Internal Grinding Wheel market?
5. Who are the key producers in the global Low Temperature Internal Grinding Wheel market?
6. What are the growth factors driving the market demand?

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