

Global High-Pressure Slip-Cast Advanced Ceramic Products Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-Pressure Slip-Cast Advanced Ceramic Products market size is expected to reach \$ 81.44 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

The High-Pressure Slip-Cast Advanced Ceramic Products market covers sintered advanced ceramic articles whose green bodies are formed by introducing ceramic slurry under external pressure into porous polymer or microporous molds. The applied pressure accelerates liquid removal, shortens forming cycles and improves dimensional repeatability compared with conventional gravity slip casting. The research scope covers oxide, non-oxide and ceramic-composite products, including industrial formers, ceramic tooling, armor panels, hollow components, thermal-processing parts and precision functional components. Product value is measured at the finished ceramic-product level on an EXW basis, while sales volume is measured by the net weight of fired ceramic material. The process is particularly relevant to relatively large, thin-walled, hollow, conformal or geometrically complex components that require repeatable batch production.

Key Findings

The global High-Pressure Slip-Cast Advanced Ceramic Products market was estimated at USD 54.16 million in 2025, with approximately 930 metric tons of shipments. The market represents a specialized segment within advanced ceramics, with commercial products mainly concentrated in armor ceramic plates, kiln furniture and firing fixtures, infrared ceramic heating elements, and customized technical ceramic components.

Armor ceramic plates represented the largest value segment in 2025, supported by commercial pressure-cast silicon carbide and boron carbide products. Schunk Technical Ceramics has commercialized pressure casting for silicon carbide and boron carbide ballistic ceramics, while Ningbo Vulcan has disclosed high-pressure slip-cast ballistic plates.

The supplier landscape remains highly specialized. Only a limited number of companies have publicly demonstrated both commercial advanced ceramic products and pressure casting capabilities. Verified participants include Schunk Technical Ceramics, CoorsTek, Ceramicx, Ningbo Vulcan Technology Group and ACO Ceramic. CoorsTek confirms pressure casting as an accelerated wet-forming route for technical ceramics, while Schunk applies pressure casting to medium and large series ceramic components.

Market Trends

High-pressure slip casting is gradually expanding from traditional casting applications toward selected industrial advanced ceramic products requiring high dimensional consistency and repeatable production.

The most established commercial applications are concentrated in three areas. First, defense ceramics use pressure casting to manufacture lightweight silicon carbide and boron carbide armor products. Second, thermal-processing industries adopt pressure-cast ceramic fixtures and kiln furniture where low thermal mass and dimensional stability are important. Third, industrial heating suppliers apply pressure casting to improve consistency of ceramic infrared heating components.

Schunk describes pressure casting as a process using ceramic slip injected under pressure into microporous molds, enabling shorter forming cycles and improved repeatability compared with conventional slip casting. CoorsTek similarly identifies pressure casting as an approach for accelerating slip casting in higher-volume technical ceramic production.

Despite these developments, pressure casting remains a niche forming technology within advanced ceramics. Conventional slip casting, dry pressing and isostatic pressing continue to serve a broader range of ceramic components. Fraunhofer IKTS notes that pressure slip casting in advanced ceramics is mainly applied to complex-shaped, large-

size components produced from relatively low-cost ceramic powders in larger quantities.

Market Dynamics

Drivers

The primary demand driver is the need to manufacture complex ceramic components with stable geometry, thin structures and repeatable production performance.

Defense protection ceramics are the strongest commercial driver. Silicon carbide and boron carbide provide high hardness and low density, making them suitable for lightweight armor systems. Schunk has commercialized pressure-cast RBSiC and RBB4C ballistic ceramic products.

Industrial thermal-processing applications represent another important demand area. Pressure-cast silicon carbide kiln furniture provides advantages in thermal cycling, mechanical strength and service life for high-temperature processes. Schunk applies advanced ceramic solutions in furnace and industrial applications.

Restraints

The market is constrained by limited process transparency and the lack of standardized industry statistics. Many ceramic manufacturers disclose material systems and end applications but do not disclose whether specific products are manufactured by pressure casting, conventional slip casting or other forming methods.

High-pressure slip casting also requires dedicated porous molds, pressure equipment and material-specific slurry optimization. Each ceramic system requires control of solids loading, viscosity, filtration behavior, drying performance and sintering shrinkage.

The lack of process-specific revenue disclosure prevents accurate calculation of producer market shares. Large integrated ceramic manufacturers such as CoorsTek operate multiple forming technologies, making it difficult to isolate pressure-cast product revenue.

Opportunities

Future opportunities are concentrated in specialized technical ceramic products where production consistency and geometry control are more important than minimizing forming cost.

Defense ceramics, lightweight kiln furniture, industrial heating components and customized technical ceramic parts represent the most commercially validated opportunities.

Ceramicx has expanded pressure casting in ceramic infrared heating products and customized technical ceramic components, demonstrating the application potential of pressure casting in functional ceramic products.

Challenges

The main challenge is expanding pressure casting from selected applications into broader advanced ceramic production.

Commercial scaling depends on mold durability, slurry stability, drying control, sintering consistency and final machining yield. Material systems such as silicon carbide, boron carbide and alumina require different process optimization strategies.

Another challenge is market measurement. Because manufacturers rarely disclose forming routes by product line, estimating production volume and supplier concentration remains difficult.

Industry Chain Analysis

The upstream industry chain includes advanced ceramic powders such as silicon carbide, boron carbide, alumina and aluminosilicate materials, together with dispersants, binders, porous molds and pressure-casting equipment.

The midstream stage covers slurry preparation, pressure slip casting, drying, debinding, sintering, machining and quality inspection. Compared with conventional slip casting, pressure casting requires closer integration between powder characteristics, slurry rheology and mold permeability.

The downstream market includes defense protection, industrial thermal processing, infrared heating systems and customized technical ceramic applications.

Schunk integrates pressure-cast ceramics into ballistic protection and industrial furnace applications. CoorsTek applies wet-forming technologies across technical ceramic applications including armor and electronic-related components.

Segment Insights

Armor plates and panels represented the largest value segment in 2025 due to the high material value and qualification requirements of silicon carbide and boron carbide ceramic protection systems.

Silicon carbide and boron carbide are the most commercially validated material categories because of established applications in lightweight ballistic protection. Schunk provides pressure-cast silicon carbide and boron carbide products, while Ningbo Vulcan has disclosed high-pressure slip-cast ballistic plates.

Kiln furniture and firing fixtures represented the major volume segment after armor ceramics. Commercial products include silicon carbide setters and ceramic firing components used in demanding thermal processes. Schunk identifies pressure casting as suitable for plate-shaped components produced in medium and large series.

Infrared ceramic heating elements represent a smaller but higher-value segment. Ceramicx applies pressure casting to ceramic infrared heating products where dimensional consistency and integration capability are important.

Customized technical ceramic components represent an emerging segment, mainly involving complex geometries, embedded structures and specialized industrial applications.

Downstream Market Opportunities

Defense protection remains the most commercially mature downstream opportunity. Lightweight armor systems require ceramic materials with high hardness-to-weight ratios, supporting continued adoption of silicon carbide and boron carbide pressure-cast products.

Industrial thermal processing provides another stable opportunity. Battery materials, electronic ceramics and other high-temperature manufacturing processes require durable kiln furniture and firing fixtures with improved thermal performance.

Industrial heating applications offer additional growth potential through pressure-cast ceramic infrared components. Ceramicx demonstrates commercialization of pressure-cast ceramic heating elements for industrial applications.

Regional Insights

Asia represents an important production and demand region due to its concentration of ceramic manufacturing, thermal processing industries and advanced manufacturing supply chains.

China has developed capabilities in defense ceramics, industrial ceramics and advanced ceramic processing. Ningbo Vulcan represents a Chinese producer with direct evidence of high-pressure slip-cast ballistic ceramic products.

Europe and North America maintain stronger positions in high-value technical ceramics, defense protection systems and specialized industrial components. Schunk and CoorsTek demonstrate the capability of Western suppliers in qualified technical ceramic applications.

Competitive Landscape Analysis

The competitive landscape is characterized by specialized manufacturers with strong material and application expertise.

Schunk Technical Ceramics has commercial pressure-cast silicon carbide and boron carbide products and pressure-cast ceramic forming capabilities. CoorsTek has broad advanced ceramic manufacturing capabilities.

Report Scope

This report studies the global High-Pressure Slip-Cast Advanced Ceramic Products production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Pressure Slip-Cast Advanced Ceramic Products 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 High-Pressure Slip-Cast Advanced Ceramic Products that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Pressure Slip-Cast Advanced Ceramic Products total production

and demand, 2021-2032, (Tons)

Global High-Pressure Slip-Cast Advanced Ceramic Products total production value, 2021-2032, (USD Million)

Global High-Pressure Slip-Cast Advanced Ceramic Products production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High-Pressure Slip-Cast Advanced Ceramic Products consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High-Pressure Slip-Cast Advanced Ceramic Products domestic production, consumption, key domestic manufacturers and share

Global High-Pressure Slip-Cast Advanced Ceramic Products production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High-Pressure Slip-Cast Advanced Ceramic Products production by Ceramic Material, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High-Pressure Slip-Cast Advanced Ceramic Products production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High-Pressure Slip-Cast Advanced Ceramic Products 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 Schunk Technical Ceramics, CoorsTek, Ceramicx, Ningbo Vulcan Technology Group, ACO Ceramic, 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 High-Pressure Slip-Cast Advanced Ceramic Products market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Ceramic Material, 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 High-Pressure Slip-Cast Advanced Ceramic Products Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global High-Pressure Slip-Cast Advanced Ceramic Products Market, Segmentation by Ceramic Material:

Silicon Carbide Ceramics

Boron Carbide Ceramics

Alumina Ceramics

Mullite and Cordierite Ceramics

Other Advanced Ceramics

Global High-Pressure Slip-Cast Advanced Ceramic Products Market, Segmentation by Product Form:

Armor Plates and Panels

Kiln Furniture and Firing Fixtures

Infrared Heating Elements

Custom Technical Ceramic Components

Global High-Pressure Slip-Cast Advanced Ceramic Products Market, Segmentation by Application:

Defense and Protection

Industrial Firing

Industrial Process Heating

Other Industrial Equipment

Companies Profiled:

Schunk Technical Ceramics

CoorsTek

Ceramicx

Ningbo Vulcan Technology Group

ACO Ceramic

Key Questions Answered

1. How big is the global High-Pressure Slip-Cast Advanced Ceramic Products market?
2. What is the demand of the global High-Pressure Slip-Cast Advanced Ceramic Products market?
3. What is the year over year growth of the global High-Pressure Slip-Cast Advanced Ceramic Products market?
4. What is the total value of the global High-Pressure Slip-Cast Advanced Ceramic Products market?
5. Who are the Major Players in the global High-Pressure Slip-Cast Advanced Ceramic Products market?
6. What are the growth factors driving the market demand?

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