

Europe Ceramic Injection Molding Market Forecast to 2027 - COVID-19 Impact and Regional Analysis by Type (Alumina, Zirconia, and Others) and Industry Vertical (Industrial Machinery, Automotive, Healthcare, Electrical and Electronics, Consumer Goods, and Others)

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Abstracts

The Europe ceramic injection molding market is expected to grow from US\$ 61.87 million in 2022 to US\$ 97.98 million by 2028. It is estimated to grow at a CAGR of 8.0% from 2022 to 2028.

Various Advantages Offered by Ceramic Injection Molding is Driving Europe Ceramic Injection Molding Market

The ceramic injection molding process is a type of powder injection molding which involves mixing ceramic powders such as alumina and zirconia with binders to form a feedstock which is then molded in a die cavity to form the desired component. The process is similar to metal powder injection molding process. By utilizing this technology, injection-molded ceramic parts of intricate geometries such as sockets, bearings, mobile phone buttons, dental implants, specific laptop keypads, and others could be manufactured with high precision and negligible wastage. Ceramic injection molding helps to obtain intricate designs using a cost-effective process. When a ceramic material is chosen for a specific application, the component's geometry has often been limited by the cost of shaping operations. Ceramic injection molding helps to overcome this issue by forming net shape parts in the tool. This makes it commercially feasible for previously rejected designs that were too difficult or expensive to manufacture using other traditional production techniques. Due to ceramics' inherent

hardness, manufacturing components with complex shapes by standard machining processes can be expensive. Features such as multi-shaped blind holes, re-entrant angles, surface profiles, perpendicular holes, screw threads, undercuts, and intricate cavities are possible using ceramic injection molding technology. Furthermore, ceramic injection molding employs dependable equipment and advanced ceramic materials as well as compounds to produce ceramic components in a carefully controlled environment. This results in products of exceptional quality that meets the quality and aesthetic standards specific to a particular industry. Ceramic injection molding technology helps businesses to attain financial benefits from high-volume manufacturing, especially if they require new components as an alternative to existing designs. In addition, ceramic injection molding also helps acquire custom-made moldings of exceptional durability that meet all the required industry criteria. Also, ceramic injection molding components offer all the benefits associated with technical ceramics, including corrosion resistance, wear resistance, superior hardness, thermal stability, high mechanical strength, and dimensional stability. Thus, the advantages offered by ceramic injection molding is augmenting the Europe ceramic injection molding market growth.

Europe Ceramic Injection Molding Market Overview

The Europe ceramic injection molding market is divided into Germany, France, Italy, the UK, Russia, and the Rest of Europe. The demand for various types of ceramics, such as alumina, zirconia, zirconia, toughed alumina, and others, has increased from the end-use industries within the European region, particularly in Germany, France, and the UK. Steady growth in the automotive, electrical & electronics, aerospace & defense, medical, and other industries has had a noteworthy influence on the ceramic injection molding market in Europe. End-use industries in this region are adopting the ceramic injection molding process owing to its benefits such as resistance to abrasion and corrosion, improved strength, electrical conductivity, and appearance. In addition to that, CIM has several effects on an object, including changes in conductivity, hardness, brittleness, resistance, and lustre. Thus, the rising adoption of ceramic injection molding technology across various end-use industries in the region is significantly driving the market growth.

Europe Ceramic Injection Molding Market Revenue and Forecast to 2028 (US\$ Million)

Europe Ceramic Injection Molding Market Segmentation

The Europe ceramic injection molding market is segmented based on type, industry

vertical, and country.

Based on type, the Europe ceramic injection molding market is segmented into alumina, zirconia, and others. The alumina segment held the largest market share in 2022.

Based on industry vertical, the Europe ceramic injection molding market is segmented into industrial machinery, automotive, healthcare, electrical and electronics, consumer goods, and others. The healthcare segment held the largest market share in 2022.

Based on country, the Europe ceramic injection molding market has been categorized into the UK, Germany, France, Italy, Russia, and the Rest of Europe. Our regional analysis states that the Rest of Europe dominated the market in 2022.

AMT PTE. LTD., ARBURG GmbH + Co KG, CoorsTek Inc., INDO-MIM, KLAGER, Morgan Advanced Materials, and Oechsler AG are the leading companies operating in the Europe ceramic injection molding market.

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