

# Global VGF Crucible Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global VGF Crucible market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

VGF crucible is a special crucible for single crystal growth, it is one of the key components to grow single crystal material by Vertical Gradient Freeze (VGF) method. The VGF method is a commonly used single crystal growth technology, mainly used to grow semiconductor materials, such as silicon, gallium, phosphide, etc. The main features of VGF crucibles are good heat conduction performance and temperature gradient control ability. It is usually made of materials with high melting point, such as graphite, quartz, etc. The structure of a VGF crucible generally includes a bottom, a side wall and a top, wherein the bottom is used for heating, the top is used for cooling, and the side wall is used to control the temperature gradient. During VGF growth, the molten portion of material is placed on the bottom of the VGF crucible and melted by heating. Then, by controlling the temperature at the bottom of the crucible and the cooling rate at the top, a temperature gradient can be created in the molten material. The material is gradually cooled from the molten state, allowing it to gradually solidify into a single crystal. The VGF crucible plays a key role in the VGF growth process. It can provide a stable temperature gradient and heat conduction, so that single crystal materials can grow under suitable temperature conditions. At the same time, the VGF crucible also needs to have good high temperature resistance and chemical stability to ensure the stability of the growth process and the quality of the material.

This report studies the global VGF Crucible production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for VGF

Crucible, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of VGF Crucible that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global VGF Crucible total production and demand, 2018-2029, (K Units)

Global VGF Crucible total production value, 2018-2029, (USD Million)

Global VGF Crucible production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global VGF Crucible consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: VGF Crucible domestic production, consumption, key domestic manufacturers and share

Global VGF Crucible production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global VGF Crucible production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global VGF Crucible production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global VGF Crucible 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 Vesuvius, Foseco, W. Pilling Kesselfabrik GmbH & Co. KG, Carl Friedrich Usbeck KG, Xian Huan-Tai Technology & Development Co., Ltd., Crucible Industries, LaBelle Steel Company, Morgan Advanced Materials and Zircar Zirconia, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World VGF Crucible 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global VGF Crucible Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global VGF Crucible Market, Segmentation by Type

Graphite VGF Crucible

Quartz VGF Crucible

Ceramic VGF Crucible

Metal VGF Crucible

## Global VGF Crucible Market, Segmentation by Application

Optoelectronics Industry

Semiconductor Industry

Others

## Companies Profiled:

Vesuvius

Foseco

W. Pilling Kesselfabrik GmbH & Co. KG

Carl Friedrich Usbeck KG

Xian Huan-Tai Technology & Development Co., Ltd.

Crucible Industries

LaBelle Steel Company

Morgan Advanced Materials

Zircar Zirconia

LECO Corporation

Thermal Technology LLC

MTI Corporation

Stanford Advanced Materials

## Zhengzhou Chida Tungsten & Molybdenum Products Co., Ltd.

### Key Questions Answered

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

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