

Global Immersion Liquid Nitrogen Cryo-grinder Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Immersion Liquid Nitrogen Cryo-grinder market size was valued at US\$ 99 million in 2024 and is forecast to a readjusted size of USD 147 million by 2031 with a CAGR of 5.8% during review period.

The immersion liquid nitrogen cryo-grinder is an efficient sample pre-treatment device. It uses liquid nitrogen as a cooling medium to grind samples in an ultra-low temperature environment. The instrument seals the sample in a special grinding jar and completely immerses it in liquid nitrogen for pre-cooling. It then uses magnetic or mechanical force to drive the grinding medium (such as grinding balls, grinding beads, etc.) to impact, shear or rub the sample, thereby achieving rapid and uniform grinding of the sample. The instrument is suitable for grinding various types of samples, including hard samples (such as metals, ceramics, etc.), soft samples (such as biological tissues, cells, etc.) and temperature-sensitive samples (such as proteins, enzymes, etc.).

This report is a detailed and comprehensive analysis for global Immersion Liquid Nitrogen Cryo-grinder 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 Immersion Liquid Nitrogen Cryo-grinder market size and forecasts, in

consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Immersion Liquid Nitrogen Cryo-grinder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Immersion Liquid Nitrogen Cryo-grinder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Immersion Liquid Nitrogen Cryo-grinder market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

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 Immersion Liquid Nitrogen Cryo-grinder

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 Immersion Liquid Nitrogen Cryo-grinder 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 Retsch, SPEX SamplePrep, Shanghai Jingxin Industrial Development, Wuhan Servicebio Technology, Beijing Xianfeng Science and Technology, Hangzhou Lizheng Scientific Instrument, Tuohe Electromechanical Technology, etc.

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

Market Segmentation

Immersion Liquid Nitrogen Cryo-grinder market is split by Type and by Application. For the period 2020-2031, 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

Fully Automatic

Semi-automatic

Market segment by Application

Biomedicine

Food Science

Geology

Material Science

Others

Major players covered

Retsch

SPEX SamplePrep

Shanghai Jingxin Industrial Development

Wuhan Servicebio Technology

Beijing Xianfeng Science and Technology

Hangzhou Lizheng Scientific Instrument

Tuohe Electromechanical Technology

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 Immersion Liquid Nitrogen Cryo-grinder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Immersion Liquid Nitrogen Cryo-grinder, with price, sales quantity, revenue, and global market share of Immersion Liquid Nitrogen Cryo-grinder from 2020 to 2025.

Chapter 3, the Immersion Liquid Nitrogen Cryo-grinder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Immersion Liquid Nitrogen Cryo-grinder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Immersion Liquid Nitrogen Cryo-grinder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Immersion Liquid Nitrogen Cryo-grinder.

Chapter 14 and 15, to describe Immersion Liquid Nitrogen Cryo-grinder sales channel, distributors, customers, research findings and conclusion.

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