

Global Flow Cells Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Flow Cells market size will reach 464.59 Million USD in 2025 and is projected to reach 959.10 Million USD by 2032, with a CAGR of 10.91% (2025-2032). Notably, the China Flow Cells market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Flow cells are samples cells designed so that liquid samples can be continuously flowed through the beam path. Flow cells are useful for samples that can be damaged by a light source. In flow cells, new samples are continuously replenished so that the damage does not interfere with the signal. In other cases, flow cells are useful in situations where samples need to vary continuously, such as gradually changing concentration amounts. A benefit of glass flow cells is that observers of the process can examine and analyze in real time, without having to rely on delayed analysis. Furthermore, glass flow cells are re-usable, affordable, and can be built at scale. Flow Cell technology has been used in many field applications across a wide variety of industries. One of the most common applications of flow cell technology is in water cooling systems. Water cooling systems can include once-through, open-recirculating, and closed-loop cooling systems. These systems are most commonly found in petroleum refineries, nuclear power plants, fossil fuel power plants, chemical processing plants, paper mills, and food processing plants. Flow cells are very useful for localized corrosion monitoring, for failure cause analysis, and for the performance based optimization and control of chemical treatments. Other applications that have made use

of flow cell technology have been seen in oil-field systems, iron-oxide cleaning process, boiler condensate corrosion, and aluminum corrosion in engine coolants.

The major global manufacturers of Flow Cells include Thermo Fisher Scientific, Illumina, Agilent, Oxford Nanopore Technologies, Hamamatsu Photonic, Shimadzu, PerkinElmer, FireflySci, Reichert Technologies (AMETEK), Berthold Technologies, Hellma, Ocean Optics, Japan Cell, Starna Scientific, Micronit, PG Instruments, BioSurface Technologies Corporation (BST), Specialty Glass Products, FIAlab Instruments, IBI Scientific, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Flow Cells. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Flow Cells market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Flow Cells market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Flow Cells industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public

information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Flow Cells Include:

Thermo Fisher Scientific

Illumina

Agilent

Oxford Nanopore Technologies

Hamamatsu Photonic

Shimadzu

PerkinElmer

FireflySci

Reichert Technologies (AMETEK)

Berthold Technologies

Hellma

Ocean Optics

Japan Cell

Starna Scientific

Micronit

PG Instruments

BioSurface Technologies Corporation (BST)

Specialty Glass Products

FIAlab Instruments

IBI Scientific

Flow Cells Product Segment Include:

Glass & Quartz

Metal

Others

Flow Cells Product Application Include:

Cell Counting and Analysis

Chromatography

Immunoassays

Genetic Sequencing

Others

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