

Global Ophthalmic Perfluoropropane Gas (C3F8) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ophthalmic Perfluoropropane Gas (C3F8) market size is expected to reach \$ 115 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2025, global Ophthalmic Perfluoropropane Gas (C3F8) production reached approximately 160 k units, with an average global market price of around US\$495 per unit. Ophthalmic perfluoropropane gas (C3F8) is a colorless, odorless, non-toxic inert gas, chemically stable, insoluble in water, belongs to Class III medical devices, product specifications are usually 15ml. It is mainly used in vitreo-retinal detachment surgery, as a filling gas material in the eye, by absorbing nitrogen and oxygen in the surrounding tissue and expanding, creating a supporting effect on the retina, promoting its reduction and healing. The gas plays an important role in eye surgery, which can improve the surgical cure rate, reduce surgical risks and complications, simplify the surgical process, and reduce the workload of doctors.

Ophthalmic perfluoropropane gas is an essential intraocular tamponade material in vitreoretinal surgery, with market demand directly linked to the global burden of ophthalmic diseases. Globally, population aging, rising myopia prevalence, and the spread of chronic eye diseases such as diabetic retinopathy collectively drive stable clinical demand for long-acting intraocular filling gases. The widespread adoption of minimally invasive vitrectomy has further increased the clinical usage frequency of this product, and the standardization of surgical techniques has promoted its penetration in medical institutions at different levels.

The production of this product has high technical barriers, with strict requirements for gas purity, impurity control, and sterile processing. Major global markets classify it as a

high-risk medical device and implement strict supervision. Long product registration cycles and high clinical verification requirements constitute significant market entry barriers. Meanwhile, the production of fluorine-containing gases is constrained by global environmental protection policies, and raw material supply and capacity layout need to comply with national greenhouse gas emission control requirements, which pose higher challenges to supply chain stability and flexibility.

This report studies the global Ophthalmic Perfluoropropane Gas (C3F8) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ophthalmic Perfluoropropane Gas (C3F8) 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 Ophthalmic Perfluoropropane Gas (C3F8) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ophthalmic Perfluoropropane Gas (C3F8) total production and demand, 2021-2032, (Units)

Global Ophthalmic Perfluoropropane Gas (C3F8) total production value, 2021-2032, (USD Million)

Global Ophthalmic Perfluoropropane Gas (C3F8) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ophthalmic Perfluoropropane Gas (C3F8) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ophthalmic Perfluoropropane Gas (C3F8) domestic production, consumption, key domestic manufacturers and share

Global Ophthalmic Perfluoropropane Gas (C3F8) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ophthalmic Perfluoropropane Gas (C3F8) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ophthalmic Perfluoropropane Gas (C3F8) production by End-user, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ophthalmic Perfluoropropane Gas (C3F8) 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 Alcon, Alchimia, Scott Medical, DORC (ZEISS), Pharmpur, BVI Medical, Fluoron GmbH, Micromed, Shanghai Jesvis Medical Technology, 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 Ophthalmic Perfluoropropane Gas (C3F8) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by End-user. 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 Ophthalmic Perfluoropropane Gas (C3F8) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ophthalmic Perfluoropropane Gas (C3F8) Market, Segmentation by Type:

Pure C3F8

Gas Mixture

Global Ophthalmic Perfluoropropane Gas (C3F8) Market, Segmentation by Specification:

30 ml/unit

40 ml/unit

Others

Global Ophthalmic Perfluoropropane Gas (C3F8) Market, Segmentation by Application:

Retinal Detachment Repair

Macular Hole Surgery

Others

Global Ophthalmic Perfluoropropane Gas (C3F8) Market, Segmentation by End-user:

Hospital

Ophthalmology Clinic

Companies Profiled:

Alcon

Alchimia

Scott Medical

DORC (ZEISS)

Pharmpur

BVI Medical

Fluoron GmbH

Micromed

Shanghai Jesvis Medical Technology

Key Questions Answered:

1. How big is the global Ophthalmic Perfluoropropane Gas (C3F8) market?
2. What is the demand of the global Ophthalmic Perfluoropropane Gas (C3F8) market?
3. What is the year over year growth of the global Ophthalmic Perfluoropropane Gas (C3F8) market?
4. What is the production and production value of the global Ophthalmic Perfluoropropane Gas (C3F8) market?
5. Who are the key producers in the global Ophthalmic Perfluoropropane Gas (C3F8) market?
6. What are the growth factors driving the market demand?

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