

Propylene Carbonate Market Outlook 2026-2034: Market Share, and Growth Analysis By Application (Solvent, Electrolyte, Catalyst, Additives, Cleaners, Others), By End-User (Paints & Coatings, Pharmaceuticals, Cosmetics & Personal Care, Textile, Energy & Power, Mining, Others)

<https://marketpublishers.com/r/PE9205D4B05BEN.html>

Date: November 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: PE9205D4B05BEN

Abstracts

The Propylene Carbonate Market is valued at USD 451.7 million in 2025 and is projected to grow at a CAGR of 5.3% to reach USD 718.9 million by 2034.

Propylene Carbonate Market

Rhenium is a rare, high-melting transition metal recovered almost entirely as a by-product of molybdenum concentrate roasting from porphyry copper operations. End-use demand is concentrated in two mission-critical applications: nickel-based superalloys for turbine blades and other hot-section parts in aero and stationary gas turbines, and platinum–rhenium reforming catalysts that boost octane in petroleum refineries. Because primary supply is tied to upstream Cu/Mo mining schedules, the market's supply response is structurally inelastic - tightness or surplus often reflects mining cycles rather than rhenium demand. Medium-term visibility is anchored in aircraft engine build rates, MRO activity and revert flows, refinery utilization and turnaround cycles, and gas-turbine orders in power generation. Recycling from superalloy revert and spent reforming catalysts is strategically important, providing a buffer against disruptions and moderating price spikes; closed-loop programs are standard in aerospace and refining. Product forms span ammonium perrhenate (APR), metallic rhenium, and rhenium-containing alloys/powders, with quality and traceability crucial for aerospace qualification. Key themes shaping the next cycle include gradual thrift of rhenium

content in newer alloy generations (tempered by the installed fleet), sustainability and NOx/N₂O abatement across the value chain, and regionalization of critical-materials supply with dual-sourcing and near-site processing. Net-net, rhenium remains a specification-locked performance metal whose cost share is small relative to the durability, efficiency, and yield it enables - keeping it embedded in aero engines and high-severity catalytic processes.

Propylene Carbonate Market Key Insights

By-product dependency defines supply. Output rises and falls with Cu/Mo mining, not with rhenium demand - driving reliance on inventory, scrap, and toll-recycle strategies.

Aero engines anchor consumption. Single-crystal superalloys use rhenium for creep strength and thermal stability in hot sections; alloy “thrift” continues but does not eliminate the need.

Refining catalysts are the second pillar. Pt–Re reforming remains a workhorse for octane uplift; longer catalyst lives and reclamation temper fresh pulls.

Recycling is strategic. Superalloy revert and spent catalyst recovery are entrenched, reducing net imports and smoothing price volatility.

Qualification is sticky. Exhaustive trials and reliability checks lock suppliers into BOMs; second-source programs de-risk supply but take time.

Packaging and purity matter. APR/metal purity, particulate control, and audited chain-of-custody are ticket-to-play for aerospace and refining.

Alternatives coexist, not replace. CMCs, coatings, and alternative cleanup routes reduce intensity in some niches, but installed fleets sustain baseline demand.

Policy raises resilience thresholds. Critical-materials agendas encourage regional processing, recycling capacity, and long-term offtakes.

Input volatility vs. value-in-use. Pricing tracks upstream nitric/ammonia and Cu/Mo cycles, yet procurement centers on cost per good turbine hour and refinery yield.

Service is a differentiator. Suppliers win on revert take-back, tolling flexibility, logistics reliability, and technical support for alloy/catalyst performance.

Propylene Carbonate Market Regional Analysis

North America

Commercial and defense engine production plus a large MRO base drive steady consumption, with refinery reformers providing a second demand spine. The region leads in secondary rhenium via superalloy revert and catalyst reclamation. Buyers emphasize dual-sourcing, closed-loop programs, and robust safety/environmental controls at processing sites.

Europe

Aerospace hubs and turbine OEMs underpin demand, supported by stringent QA and mature recycling infrastructure. Policy momentum around strategic autonomy and critical materials favors local processing and documented supply chains. Refinery reforming units add stable, cyclical demand with established reclaim loops.

Asia-Pacific

Home to leading-edge fabs for turbines and dense refinery capacity, APAC anchors both demand and processing know-how. Japan, Korea, and China maintain deep ecosystems for superalloys, catalysts, and recovery; engine program growth and regional MRO expansion support durable pull, while new gas-turbine projects add incremental demand.

Middle East & Africa

Civil aviation growth, fleet renewals, and refinery modernization lift consumption of Re-containing catalysts and aero components. With limited primary supply, buyers rely on imports and service agreements that bundle catalyst management, revert take-back, and logistics to mitigate risk.

South & Central America

Primary supply is pivotal, with rhenium recovered during molybdenum roasting linked to large copper operations. Local consumption is modest but growing through aerospace supply chains and refinery investments. Contracting often pairs primary shipments with technical support and recycling lanes to capture value from revert and spent catalysts.

Propylene Carbonate Market Segmentation

By Application

Solvent

Electrolyte

Catalyst

Additives

Cleaners

Others

By End-User

Paints & Coatings

Pharmaceuticals

Cosmetics & Personal Care

Textile

Energy & Power

Mining

Others

Key Market players

BASF, Huntsman, Mitsubishi Chemical, LyondellBasell, Taixing Taida, Shandong Shida Shenghua, Lixing Chemical, Empower Materials, TCI, Dow, Asahi Kasei, Tokuyama, Kowa American, Zhangjiagang Huaxi, UBE Corporation

Propylene Carbonate Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modelling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends. Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behaviour are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Propylene Carbonate Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption. Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Propylene Carbonate market data and outlook to 2034

United States

Canada

Mexico

Europe — Propylene Carbonate market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Propylene Carbonate market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Propylene Carbonate market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Propylene Carbonate market data and outlook to 2034

Brazil

Argentina

Chile

Peru

* We can include data and analysis of additional countries on demand.

Research Methodology

This study combines primary inputs from industry experts across the Propylene Carbonate value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Propylene Carbonate industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Propylene Carbonate Market Report

Global Propylene Carbonate market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Propylene Carbonate trade, costs, and supply chains

Propylene Carbonate market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Propylene Carbonate market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Propylene Carbonate market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Propylene Carbonate supply chain analysis

Propylene Carbonate trade analysis, Propylene Carbonate market price analysis, and Propylene Carbonate supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Propylene Carbonate market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

* The updated report will be delivered within 3 working days

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