

Global Ammonium Perchlorate Composite Propellant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ammonium Perchlorate Composite Propellant market size is expected to reach \$ 4826 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

Ammonium Perchlorate Composite Propellant (APCP) is a solid rocket propellant widely used in launch vehicles, tactical missiles, space boosters, and high-power rocket motors. It is a heterogeneous mixture in which ammonium perchlorate (AP) serves as the oxidizer (typically 60-75% by weight), aluminum powder acts as the metallic fuel to increase energy density and combustion temperature, and a polymeric binder system (commonly HTPB—hydroxyl-terminated polybutadiene, cured with isocyanates) functions both as fuel and structural matrix; additives such as plasticizers, bonding agents, burn-rate modifiers, and curing catalysts are included to tailor mechanical strength and ballistic performance. The supply chain begins upstream with chlor-alkali and ammonia producers (for perchlorate chemistry), specialty oxidizer manufacturers producing high-purity AP crystals (often classified energetic material facilities), aluminum powder atomization suppliers, and polymer/binder chemical producers. Midstream involves controlled mixing, casting, vacuum degassing, and curing of propellant grains in licensed energetic-material plants under strict safety and environmental regulations. Downstream customers include aerospace OEMs, defense contractors, space launch providers, and government agencies, with final integration into rocket motors followed by testing, storage, and lifecycle management under regulated energetic-material logistics systems. In 2025, global Ammonium Perchlorate Composite Propellant (APCP) output reached about 260,000 tons, with global capacity near 315,000 tons per year. Prices range from USD 6,800-13,000 per ton, and average gross margin is approximately 36%.

This report studies the global Ammonium Perchlorate Composite Propellant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ammonium Perchlorate Composite Propellant 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 Ammonium Perchlorate Composite Propellant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ammonium Perchlorate Composite Propellant total production and demand, 2021-2032, (Tons)

Global Ammonium Perchlorate Composite Propellant total production value, 2021-2032, (USD Million)

Global Ammonium Perchlorate Composite Propellant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Ammonium Perchlorate Composite Propellant consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Ammonium Perchlorate Composite Propellant domestic production, consumption, key domestic manufacturers and share

Global Ammonium Perchlorate Composite Propellant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Ammonium Perchlorate Composite Propellant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Ammonium Perchlorate Composite Propellant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Ammonium Perchlorate Composite Propellant 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 Northrop Grumman (USA), L3Harris (USA), Anduril Industries (USA), X-Bow Systems (USA), Nammo (Norway), Avio (Italy), Europropulsion (France), ArianeGroup (France), Calibre Chemicals (India), Pandian Chemicals (India), 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 Ammonium Perchlorate Composite Propellant market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. 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 Ammonium Perchlorate Composite Propellant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ammonium Perchlorate Composite Propellant Market, Segmentation by Type:

HTPB-based APCP

CTPB-based APCP

PBAN-based APCP

Global Ammonium Perchlorate Composite Propellant Market, Segmentation by Burn Rate:

Low Burn Rate (15 mm/s)

Global Ammonium Perchlorate Composite Propellant Market, Segmentation by Application:

Space Launcher

Tactical Missile

Sounding Rocket

Companies Profiled:

Northrop Grumman (USA)

L3Harris (USA)

Anduril Industries (USA)

X-Bow Systems (USA)

Nammo (Norway)

Avio (Italy)

Europropulsion (France)

ArianeGroup (France)

Calibre Chemicals (India)

Pandian Chemicals (India)

Key Questions Answered:

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

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