

Global Ammonium Perchlorate Composite Propellant Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ammonium Perchlorate Composite Propellant market size was valued at US\$ 2864 million in 2025 and is forecast to a readjusted size of US\$ 4826 million by 2032 with a CAGR of 7.7% during review period.

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 is a detailed and comprehensive analysis for global Ammonium Perchlorate Composite Propellant 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 Ammonium Perchlorate Composite Propellant market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Ammonium Perchlorate Composite Propellant market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Ammonium Perchlorate Composite Propellant market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Ammonium Perchlorate Composite Propellant market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

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 Ammonium Perchlorate Composite Propellant
- 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 Ammonium Perchlorate Composite

Propellant 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 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.

Market Segmentation

Ammonium Perchlorate Composite Propellant market is split by Type and by Application. For the period 2021-2032, 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

HTPB-based APCP

CTPB-based APCP

PBAN-based APCP

Market segment by Burn Rate

Low Burn Rate (15 mm/s)

Market segment by Application

Space Launcher

Tactical Missile

Sounding Rocket

Major players covered

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)

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 Ammonium Perchlorate Composite Propellant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ammonium Perchlorate Composite Propellant, with price, sales quantity, revenue, and global market share of Ammonium Perchlorate Composite Propellant from 2021 to 2026.

Chapter 3, the Ammonium Perchlorate Composite Propellant competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ammonium Perchlorate Composite Propellant breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Ammonium Perchlorate Composite Propellant market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Ammonium Perchlorate Composite Propellant.

Chapter 14 and 15, to describe Ammonium Perchlorate Composite Propellant sales channel, distributors, customers, research findings and conclusion.

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