

Electronic Grade Phosphoric Acid Market Size, Share & Trends Analysis Report By Grade (>80% Purity,

Abstracts

Unmanned Composites Market Summary

The global unmanned composites market size was estimated at USD 2.7 billion in 2025 and is projected to reach USD 7.5 billion by 2033, growing at a CAGR of 13.5% from 2026 to 2033. The demand for unmanned composites is increasing rapidly as unmanned aerial vehicles (UAVs), autonomous underwater vehicles, and unmanned ground systems are adopted across the defense, commercial, and industrial sectors.

Composite materials offer lightweight structures, superior strength-to-weight ratios, corrosion resistance, and enhanced durability, making them highly suitable for unmanned systems that require long operational endurance and fuel efficiency. The expansion of military modernization programs worldwide is another major driver of market growth. Defense organizations are emphasizing lightweight, radar-absorbing composite structures to improve the stealth and maneuverability of unmanned systems. Carbon fiber composites, glass fiber composites, and hybrid materials are increasingly being integrated into drone fuselages, propellers, radomes, and structural components. The growing use of swarm drones and long-endurance reconnaissance UAVs is further accelerating the need for advanced composites with high fatigue resistance and thermal stability.

Governments across North America, Europe, and the Asia Pacific are actively investing in unmanned systems and indigenous aerospace manufacturing programs, which are significantly supporting the market. Defense modernization initiatives in countries such as the U.S., China, India, and Israel are increasing procurement of UAVs and autonomous defense platforms equipped with advanced composite structures. Several governments are also allocating substantial budgets for next-generation surveillance drones, loitering munitions, and autonomous naval systems to strengthen border security and military capabilities. The market is witnessing significant innovation in lightweight carbon fiber composites, thermoplastic composites, and multifunctional materials designed for autonomous platforms. Manufacturers are increasingly focusing on advanced materials that combine lightweight performance with electromagnetic shielding, impact resistance, and stealth properties. The adoption of hybrid composites and nano-enhanced materials is improving structural performance while reducing overall manufacturing costs and maintenance requirements.

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Additive manufacturing and automated fiber placement technologies are transforming the production of unmanned composite structures by enabling faster prototyping and precision manufacturing. These technologies help reduce material wastage, improve structural consistency, and support mass production of drone components. The integration of AI-driven design optimization and digital twin technologies is also enabling manufacturers to develop aerodynamically efficient and structurally optimized composite platforms.

Sustainability is emerging as a major trend in the market, with increasing research focused on recyclable composites and bio-based resin systems for unmanned applications. Companies are exploring eco-friendly manufacturing processes and reusable composite materials to align with environmental regulations and sustainability goals. In addition, modular composite structures and multifunctional materials with embedded sensors are gaining traction in advanced defense and industrial unmanned systems.

Global Unmanned Composites Market Report Segmentation

This report forecasts revenue growth at the regional & country levels and provides an analysis of the industry trends in each of the segments from 2021 to 2033. For this study, Grand View Research has segmented the global unmanned composites market report based on product, application, and region:

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Product Outlook (Revenue, USD Million, 2021 - 2033)

Carbon Fiber Reinforced Polymer

Glass Fiber Reinforced Polymer

Aramid Fiber Reinforced Polymer

Other Products

Application Outlook (Revenue, USD Million, 2021 - 2033)

Interior

Exterior

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Asia Pacific

China

Japan

India

South Korea

Central & South America

Brazil

Argentina

Middle East & Africa

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Grades & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. ELECTRONIC GRADE PHOSPHORIC ACID MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Industry Value Chain Analysis
 - 3.2.1. Raw Materials Trend
 - 3.2.2. Manufacturing Trends
 - 3.2.3. Sales Channel Analysis
- 3.3. Regulatory/Policy Framework
- 3.4. Price Trend Analysis, 2021-2033 (USD/Kg)
 - 3.4.1. Factors Influencing Prices
- 3.5. Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
 - 3.5.3. Industry Challenges
 - 3.5.4. Industry Opportunities
- 3.6. Industry Analysis Tools

- 3.6.1. Porter's Five Forces Analysis
- 3.6.2. Macro-environmental Analysis

CHAPTER 4. ELECTRONIC GRADE PHOSPHORIC ACID MARKET: BY TYPE ESTIMATES & TREND ANALYSIS

- 4.1. Type Movement Analysis & Market Share, 2025 & 2033
- 4.2. Electronic Grade Phosphoric Acid Market Estimates & Forecast, By Grade, 2021 to 2033 (USD Million) (Kilotons)
- 4.3. >80% Purity
 - 4.3.1. Electronic Grade Phosphoric Acid Market Estimates and Forecasts, in >80% Purity, 2021 - 2033 (USD Million) (Kilotons)
- 4.4.

List Of Tables

LIST OF TABLES

Table 1 Electronic Grade Phosphoric Acid Market Estimates & Forecast, By Grade, 2021 to 2033 (USD Million) (Kilotons)

Table 2 Electronic Grade Phosphoric Acid Market Share, By Grade, 2025 & 2033

Table 3 >80% Purity Electronic Grade Phosphoric Acid Market Estimates and Forecasts, 2021 - 2033 (USD Million) (Kilotons)

Table 4

List Of Figures

LIST OF FIGURES

- Fig. 1 Market Research Process
- Fig. 2 Data Triangulation Techniques
- Fig. 3 Primary Research Pattern
- Fig. 4 Market Research Approaches
- Fig. 5 QFD Modeling for Market Share Assessment
- Fig. 6 Information Procurement
- Fig. 7 Market Formulation and Validation
- Fig. 8 Data Validating & Publishing
- Fig. 9 Market Segmentation & Scope
- Fig. 10 Electronic Grade Phosphoric Acid Market Snapshot
- Fig. 11 Form Segment Snapshot (1/2)
- Fig. 12 Application Segment Snapshot (1/2)
- Fig. 13 End Use Segment Snapshot (1/2)
- Fig. 14 Competitive Landscape Snapshot
- Fig. 15 Parent market outlook
- Fig. 16 Electronic Grade Phosphoric Acid Market Value, 2024 (USD Million) (Kilotons)
- Fig. 17 Electronic Grade Phosphoric Acid Market - Value Chain Analysis
- Fig. 18 Electronic Grade Phosphoric Acid Market - Market Dynamics
- Fig. 19 Electronic Grade Phosphoric Acid Market - PORTER's Analysis
- Fig. 20 Electronic Grade Phosphoric Acid Market - PESTEL Analysis
- Fig. 21 Electronic Grade Phosphoric Acid Market Estimates & Forecasts, By Type: Key Takeaways
- Fig. 22 Electronic Grade Phosphoric Acid Market Share, By Type, 2025 & 2033
- Fig. 23 >80% Electronic Grade Phosphoric Acid Market Estimates & Forecasts, 2018 - 2033 (USD Million) (Kilotons)
- Fig. 24

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