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Global Isostearic Acid for Rubber & Plastics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Isostearic Acid for Rubber & Plastics market size is expected to reach $ 116 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).
Global sales of isostearic acid for rubber and plastics reached 13,900 tons in 2025, with an average price of US$5,946 per ton.

Isostearic acid for rubber and plastics is a functional additive primarily composed of branched C18 fatty acids, produced through the catalytic hydrogenation and isomerization of natural unsaturated fatty acids (such as oleic acid and ricinoleic acid). Its molecular structure is a methyl-branched octadecanoic acid, possessing unique properties such as a low melting point (liquid at room temperature), high oxidative stability, and excellent polymer compatibility. Compared to traditional straight-chain stearic acid, the branched structure provides better low-temperature fluidity and interfacial compatibility with polar/non-polar polymers. In the rubber and plastics industry, isostearic acid is mainly used as a plasticizer, lubricant, dispersant, mold release agent, and stabilizer. It can improve the processing fluidity of polymer materials, reduce melt viscosity, improve filler dispersibility, and impart excellent flexibility and weather resistance to finished products.

The raw material system for isostearic acid uses natural vegetable oils as the core starting material, mainly derived from renewable resources such as castor oil (primarily produced in India and China), palm oil (Southeast Asia), and rapeseed oil (Europe and Canada). Unsaturated fatty acids (such as oleic acid and ricinoleic acid) are converted into branched isostearic acid through a high-pressure hydrogenation-isomerization process. During production, the vegetable oil is first hydrogenated to saturation under the action of a nickel or precious metal catalyst, and then undergoes skeletal

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isomerization on an acidic catalyst (such as a molecular sieve) to form C18 fatty acids with methyl branches. Finally, it is purified to lubricant-grade specifications (acid value typically controlled at 190-200 mgKOH/g, color 60%), but its production costs are correspondingly 20-30% higher.

This report studies the global Isostearic Acid for Rubber & Plastics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Isostearic Acid for Rubber & Plastics 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 Isostearic Acid for Rubber & Plastics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Isostearic Acid for Rubber & Plastics total production and demand, 2021-2032, (Tons)
Global Isostearic Acid for Rubber & Plastics total production value, 2021-2032, (USD Million)
Global Isostearic Acid for Rubber & Plastics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Isostearic Acid for Rubber & Plastics consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Isostearic Acid for Rubber & Plastics domestic production, consumption, key domestic manufacturers and share
Global Isostearic Acid for Rubber & Plastics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Isostearic Acid for Rubber & Plastics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Isostearic Acid for Rubber & Plastics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Isostearic Acid for Rubber & Plastics 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 Cargill, KLK, Kraton, Oleon, Emery Oleochemicals, Nissan Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Isostearic Acid for Rubber & Plastics 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 Isostearic Acid for Rubber & Plastics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Isostearic Acid for Rubber & Plastics Market, Segmentation by Type:

Plant Based

Animal Based

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Global Isostearic Acid for Rubber & Plastics Market, Segmentation by Functional Positioning:

- Processing Aids
- Plasticizers/Softeners
- Lubricants/Mold Release Agents
- Dispersants
- Stabilizers

Global Isostearic Acid for Rubber & Plastics Market, Segmentation by Grade:

- Industrial Grade
- High Purity Grade
- Polymerization Grade

Global Isostearic Acid for Rubber & Plastics Market, Segmentation by Application:

- Rubber
- Plastics

Companies Profiled:

- Cargill
- KLK
- Kraton
- Oleon

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Emery Oleochemicals

Nissan Chemical

Key Questions Answered:

1. How big is the global Isostearic Acid for Rubber & Plastics market?
2. What is the demand of the global Isostearic Acid for Rubber & Plastics market?
3. What is the year over year growth of the global Isostearic Acid for Rubber & Plastics market?
4. What is the production and production value of the global Isostearic Acid for Rubber & Plastics market?
5. Who are the key producers in the global Isostearic Acid for Rubber & Plastics market?
6. What are the growth factors driving the market demand?

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