

Global Liquid Oxygen Kerosene Rocket Engine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Oxygen Kerosene Rocket Engine market size is expected to reach \$ 7674088427 million by 2032, rising at a market growth of 3006.4% CAGR during the forecast period (2026-2032).

In 2025, global Liquid Oxygen Kerosene Rocket Engine production reached approximately 2.8k units , with an average global market price of around US\$1million per unit.

A liquid oxygen kerosene rocket engine is a type of liquid-propellant rocket engine that uses liquid oxygen (LOX) as the oxidizer and kerosene (such as RP-1) as the fuel. The propellants are injected, atomized, and combusted in a chamber to generate high-temperature, high-pressure gases, which are expanded through a convergent-divergent nozzle to produce thrust. These engines typically include turbopump feed systems, injectors, combustion chambers, and regenerative cooling structures, offering high thrust, mature technology, cost efficiency, and strong reliability. They are widely used in launch vehicles, missiles, and commercial space systems.

The upstream of LOX/kerosene rocket engines includes liquid oxygen production and cryogenic handling, refined kerosene fuels (RP-1), high-temperature alloys (nickel-based, titanium), composite materials, precision machining, additive manufacturing, and turbopump components, with suppliers such as Air Liquide, Linde, Praxair (industrial gases), Shell and ExxonMobil (fuels), ATI and Carpenter Technology (advanced alloys). The midstream consists of engine manufacturers including Blue Origin, SpaceX, Rocket Lab, and CASC (China Aerospace Science and Technology Corporation). Downstream applications include launch service providers (SpaceX, Arianespace, ULA), satellite operators, and defense missile systems, where these engines serve as the core

propulsion technology.

This report studies the global Liquid Oxygen Kerosene Rocket Engine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Oxygen Kerosene Rocket Engine 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 Liquid Oxygen Kerosene Rocket Engine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Oxygen Kerosene Rocket Engine total production and demand, 2021-2032, (Units)

Global Liquid Oxygen Kerosene Rocket Engine total production value, 2021-2032, (USD Million)

Global Liquid Oxygen Kerosene Rocket Engine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Liquid Oxygen Kerosene Rocket Engine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Liquid Oxygen Kerosene Rocket Engine domestic production, consumption, key domestic manufacturers and share

Global Liquid Oxygen Kerosene Rocket Engine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Liquid Oxygen Kerosene Rocket Engine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Liquid Oxygen Kerosene Rocket Engine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid Oxygen Kerosene Rocket Engine 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 SpaceX (US), L3Harris (US), Northrop Grumman (US), Mitsubishi (JP), MTAR Technologies (IN), Rocket Lab (US), Blue Origin (US), CAS Space (CN), China Aerospace Science and Technology (CN), Galactic Energy (CN), 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 Liquid Oxygen Kerosene Rocket Engine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Liquid Oxygen Kerosene Rocket Engine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Oxygen Kerosene Rocket Engine Market, Segmentation by Type:

Open Loop

Closed Loop

Global Liquid Oxygen Kerosene Rocket Engine Market, Segmentation by Thrust:

2000 kN

Global Liquid Oxygen Kerosene Rocket Engine Market, Segmentation by Application:

Commercial Spaceflight

Defense Spaceflight

Others

Companies Profiled:

SpaceX (US)

L3Harris (US)

Northrop Grumman (US)

Mitsubishi (JP)

MTAR Technologies (IN)

Rocket Lab (US)

Blue Origin (US)

CAS Space (CN)

China Aerospace Science and Technology (CN)

Galactic Energy (CN)

Deep Blue Aerospace (CN)

Space Pioneer (CN)

Space Circling (CN)

i-Space (CN)

Key Questions Answered:

1. How big is the global Liquid Oxygen Kerosene Rocket Engine market?
2. What is the demand of the global Liquid Oxygen Kerosene Rocket Engine market?
3. What is the year over year growth of the global Liquid Oxygen Kerosene Rocket Engine market?
4. What is the production and production value of the global Liquid Oxygen Kerosene Rocket Engine market?
5. Who are the key producers in the global Liquid Oxygen Kerosene Rocket Engine market?
6. What are the growth factors driving the market demand?

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