

# Global Laser Annealing Gas Market Growth 2026-2032

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## Abstracts

The global Laser Annealing Gas market size is predicted to grow from US\$ 78.44 million in 2025 to US\$ 106 million in 2032; it is expected to grow at a CAGR of 4.5% from 2026 to 2032.

Laser Annealing Gases are high-purity gases and gas mixtures supplied to laser-annealing equipment in semiconductor and display manufacturing to create a tightly controlled atmosphere during laser heating, and when excimer lasers are used to serve as the laser's discharge (resonator) medium. In practice, this gas family often includes excimer laser gas mixtures and process-chamber ambient gases used around the wafer/panel during annealing to suppress oxidation and stabilize surface behavior.

Upstream raw materials are mainly rare gases (Ne, Ar, Kr, Xe, often with He as diluent) plus halogen or halogen-donor gases (commonly F<sub>2</sub> or HCl/Cl-chemistry) blended into excimer laser mixtures; in many excimer blends, neon is the dominant balance gas by volume. Process-ambient gases are typically sourced from high-purity N<sub>2</sub> (and other inert gases) and may include forming gas (H<sub>2</sub>/N<sub>2</sub>) depending on the tool/recipe. Downstream, these gases enable laser-anneal steps such as thin-film crystallization (LTPS for TFT backplanes), dopant activation, defect/void reduction, and silicidation/contact engineering, where ambient control is often critical for yield and electrical performance.

In 2025, global sales of laser annealing gas reached approximately 313 tons, with an average global market price of around US\$ 256/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 40% to 70%.

United States market for Laser Annealing Gas is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Laser Annealing Gas is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Laser Annealing Gas is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Laser Annealing Gas players cover Linde, Air Liquide, Air Products, Taiyo Nippon Sanso, Messer Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Laser Annealing Gas Industry Forecast" looks at past sales and reviews total world Laser Annealing Gas sales in 2025, providing a comprehensive analysis by region and market sector of projected Laser Annealing Gas sales for 2026 through 2032. With Laser Annealing Gas sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Laser Annealing Gas industry.

This Insight Report provides a comprehensive analysis of the global Laser Annealing Gas landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Laser Annealing Gas portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Laser Annealing Gas market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Laser Annealing Gas and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Laser Annealing Gas.

This report presents a comprehensive overview, market shares, and growth opportunities of Laser Annealing Gas market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Semiconductor Grade

Industrial Grade

Segmentation by Halogen Chemistry:

Fluorine-Based Mixtures

Chlorine-Based Mixtures

Segmentation by Excimer Laser Species:

ArF (193 nm) Mixtures

KrF (248 nm) Mixtures

XeCl (308 nm) Mixtures

Segmentation by Application:

Dopant Activation

Silicidation & Contact Resistance Reduction

Defect/Void Reduction

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Linde

Air Liquide

Air Products

Taiyo Nippon Sanso

Messer Group

Nova Gas Technologies

Guangdong Huate Gas

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Laser Annealing Gas market?

What factors are driving Laser Annealing Gas market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Laser Annealing Gas market opportunities vary by end market size?

How does Laser Annealing Gas break out by Type, by Application?

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