

Global Laser Annealing Gas Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6ACBA7D4F83EN.html>

Date: April 2026

Pages: 103

Price: US\$ 3,480.00 (Single User License)

ID: G6ACBA7D4F83EN

Abstracts

According to our (Global Info Research) latest study, the global Laser Annealing Gas market size was valued at US\$ 82.50 million in 2025 and is forecast to a readjusted size of US\$ 110 million by 2032 with a CAGR of 4.2% during review period.

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 F₂ 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 N₂ (and other inert gases) and may include forming gas (H₂/N₂) 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%.

This report is a detailed and comprehensive analysis for global Laser Annealing Gas 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 Laser Annealing Gas market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Laser Annealing Gas market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Laser Annealing Gas market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Laser Annealing Gas market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 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 Laser Annealing Gas

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 Laser Annealing Gas 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 Linde, Air Liquide, Air Products, Taiyo Nippon Sanso, Messer Group, Nova Gas Technologies, Guangdong Huate Gas, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Laser Annealing Gas 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

Semiconductor Grade

Industrial Grade

Market segment by Halogen Chemistry

Fluorine-Based Mixtures

Chlorine-Based Mixtures

Market segment by Excimer Laser Species

ArF (193 nm) Mixtures

KrF (248 nm) Mixtures

XeCl (308 nm) Mixtures

Market segment by Application

Dopant Activation

Silicidation & Contact Resistance Reduction

Defect/Void Reduction

Other

Major players covered

Linde

Air Liquide

Air Products

Taiyo Nippon Sanso

Messer Group

Nova Gas Technologies

Guangdong Huate Gas

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 Laser Annealing Gas product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Laser Annealing Gas, with price, sales quantity, revenue, and global market share of Laser Annealing Gas from 2021 to 2026.

Chapter 3, the Laser Annealing Gas competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Laser Annealing Gas 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 Laser Annealing Gas 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 Laser Annealing Gas.

Chapter 14 and 15, to describe Laser Annealing Gas sales channel, distributors, customers, research findings and conclusion.

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