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Global Adhesives for Optical Communication Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Adhesives for Optical Communication market size was valued at US$ 247 million in 2025 and is forecast to a readjusted size of US$ 384 million by 2032 with a CAGR of 5.9% during review period.

In 2025, the global production volume of Adhesives for Optical Communication reached 9,800 tons, with an average selling price of US$24,500 per ton, production capacity of 12,600 tons, and a gross margin of 38.0%.

Adhesives for Optical Communication are high-performance functional bonding materials specifically developed for the manufacturing, assembly, and packaging of optical communication devices, optical transceiver modules, and fiber-optic components. They are mainly used for optical component fixation, fiber coupling, chip bonding, lens alignment, structural sealing, stress buffering, and environmental protection. These products generally include epoxy resin, silicone resin, acrylic resin, and other modified resin systems and may be cured by ultraviolet light, heat, or dual-curing processes. Key characteristics include low shrinkage, low outgassing, low ionic contamination, resistance to heat and humidity, temperature-cycle durability, optical stability, and compatibility with precision dispensing. Typical applications include optical transceiver modules, lasers, photodetectors, fiber-optic connectors, PLC splitters, AWG devices, fiber-optic gyroscopes, and other active and passive optical communication devices.

The upstream industry chain of Adhesives for Optical Communication mainly includes epoxy resins, silicone resins, acrylic resins, curing agents, photoinitiators, coupling agents, toughening agents, inorganic fillers, and other functional additives, together with

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precision mixing, degassing, filtration, and packaging equipment. Midstream manufacturers are responsible for formulation design, resin modification, clean production, performance testing, and customized development for different device structures. Key performance indicators include bonding strength, curing shrinkage, glass transition temperature, coefficient of thermal expansion, outgassing level, ionic impurity content, and long-term reliability. Downstream customers mainly include manufacturers of optical transceiver modules, optical components, fiber-optic connectors, passive optical devices, data-center communication equipment, and telecommunications network equipment, with end applications covering data-center interconnection, 5G transport networks, fiber access, backbone communications, industrial communications, and sensing systems.

Report Scope

This report is a detailed and comprehensive analysis for global Adhesives for Optical Communication 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 Adhesives for Optical Communication market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Adhesives for Optical Communication market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Adhesives for Optical Communication market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Adhesives for Optical Communication market shares of main players, shipments

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in revenue ($ Million), sales quantity (Kilotons), and ASP (US$/Ton), 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 Adhesives for Optical Communication

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 Adhesives for Optical Communication 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 NTT-AT, DELO Adhesives, Henkel Adhesives, ELAPLUS, Shanghai AVENTK, Chemwell, MOSON, Shanghai SUP-BOND, Penchem (Frencken), etc.

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

Adhesives for Optical Communication 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 Segmentation

Market segment by Type

Epoxy Resins

Silicone Resins

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Acrylic Resins

Others

Market segment by Curing

UV Curing

Thermosetting

Others

Market segment by Optical Transmittance

Standard-Transmittance Type(<90%)

High-Transmittance Type(90%–95%)

Ultra-High-Transmittance Type(>95%)

Opaque and Light-Blocking Type

Market segment by Application

Active Devices

Passive Devices

Major players covered

NTT-AT

DELO Adhesives

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Henkel Adhesives

ELAPLUS

Shanghai AVENTK

Chemwell

MOSON

Shanghai SUP-BOND

Penchem (Frencken)

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)

Chapter Outline

Chapter 1, to describe Adhesives for Optical Communication product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Adhesives for Optical Communication, with price, sales quantity, revenue, and global market share of Adhesives for Optical Communication from 2021 to 2026.

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Chapter 3, the Adhesives for Optical Communication competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Adhesives for Optical Communication 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 Adhesives for Optical Communication 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 Adhesives for Optical Communication.

Chapter 14 and 15, to describe Adhesives for Optical Communication sales channel, distributors, customers, research findings and conclusion.

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