

# Global Chemicals for PCB Electroless Nickel Immersion Gold Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Chemicals for PCB Electroless Nickel Immersion Gold market size is expected to reach \$ 610 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

Chemicals for PCB Electroless Nickel Immersion Gold (ENIG) refer to a complete set of chemical solutions and process chemicals used to deposit a layer of nickel (Ni) followed by a layer of gold (Au) onto the bare copper surface of printed circuit boards (PCBs) through chemical reactions. These chemicals provide excellent solderability, conductivity, corrosion resistance, and long-term stability, and include electroless nickel plating solution and electroless gold plating solution. The upstream core lies in precious metal raw materials (such as gold salts and nickel salts) and high-purity chemical additives (such as complexing agents, reducing agents, and stabilizers). The global sales volume is projected to be approximately 50,200 tons in 2025, with an average market price of approximately US\$8,900 per ton. The industry's gross profit margin is approximately 30-50%.

Electroless nickel-gold plating technology refers to the process of depositing a nickel layer on the bare copper surface of a PCB using palladium as a catalyst, through a chemical oxidation-reduction reaction. The nickel layer is then coated with an extremely thin layer of gold through a combination of displacement and reduction reactions in a chemical gold plating solution. The quality of the electroless nickel-gold plating directly affects the reliability of terminal soldering and the electrical performance of the PCB. As a key surface treatment process for achieving high-density connections and excellent conductivity, electroless nickel-gold plating holds an irreplaceable strategic position in high-end circuit board manufacturing. With the downstream PCB industry transitioning towards high-density interconnect (HDI), ultra-thin designs, and lead-free processes, there are higher demands on the uniformity of the gold surface and the

ability to prevent black pad defects in electroless nickel-gold plating solutions. This is driving continuous iterative upgrades in the industry chain towards higher reliability and environmental friendliness.

This report studies the global Chemicals for PCB Electroless Nickel Immersion Gold production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chemicals for PCB Electroless Nickel Immersion Gold 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 Chemicals for PCB Electroless Nickel Immersion Gold that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Chemicals for PCB Electroless Nickel Immersion Gold total production and demand, 2021-2032, (Tons)

Global Chemicals for PCB Electroless Nickel Immersion Gold total production value, 2021-2032, (USD Million)

Global Chemicals for PCB Electroless Nickel Immersion Gold production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Chemicals for PCB Electroless Nickel Immersion Gold consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Chemicals for PCB Electroless Nickel Immersion Gold domestic production, consumption, key domestic manufacturers and share

Global Chemicals for PCB Electroless Nickel Immersion Gold production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Chemicals for PCB Electroless Nickel Immersion Gold production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Chemicals for PCB Electroless Nickel Immersion Gold production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Chemicals for PCB Electroless Nickel Immersion Gold 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 Atotech, Uyemura, MacDermid Alpha, Qnity, Technic, JCU, OKUNO Chemical, YMT, GHTech, Shenzhen Chuangzhi Semi-link Technology, 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 Chemicals for PCB Electroless Nickel Immersion Gold 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 Chemicals for PCB Electroless Nickel Immersion Gold Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chemicals for PCB Electroless Nickel Immersion Gold Market, Segmentation by Type:

Electroless Nickel Plating

Electroless Gold Plating

Other

Global Chemicals for PCB Electroless Nickel Immersion Gold Market, Segmentation by Phosphorus Content:

7%-9% P

10%-12% P

Other

Global Chemicals for PCB Electroless Nickel Immersion Gold Market, Segmentation by Application:

Communications

Consumer Electronics

Automotive

Medical

Aerospace

Other

### **Companies Profiled:**

Atotech

Uyemura

MacDermid Alpha

Qnity

Technic

JCU

OKUNO Chemical

YMT

GHTech

Shenzhen Chuangzhi Semi-link Technology

Sanfu New Materials

Shenzhen Xingjingwei Technology

**Key Questions Answered:**

1. How big is the global Chemicals for PCB Electroless Nickel Immersion Gold market?
2. What is the demand of the global Chemicals for PCB Electroless Nickel Immersion Gold market?
3. What is the year over year growth of the global Chemicals for PCB Electroless Nickel Immersion Gold market?
4. What is the production and production value of the global Chemicals for PCB Electroless Nickel Immersion Gold market?
5. Who are the key producers in the global Chemicals for PCB Electroless Nickel Immersion Gold market?
6. What are the growth factors driving the market demand?

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