

# Global ENEPIG Chemicals Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global ENEPIG Chemicals market size is expected to reach \$ 229 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032). ENEPIG refers to a surface treatment process in which nickel, palladium, and gold are sequentially deposited onto the copper layer of a printed circuit board (PCB) using a chemical method. It is a non-selective surface treatment process that achieves excellent electrical conductivity, corrosion resistance, and abrasion resistance on the PCB board through a 10-nanometer-thick gold plating layer and a 50-nanometer-thick palladium plating layer. The thickness of the copper layer directly affects these physical and aesthetic properties. CCPAP is currently the latest technology used in PCB prototyping. The upstream sources mainly consist of metals such as nickel salts (e.g., nickel sulfate), palladium salts, and gold salts. ENEPIG is considered the 'gold standard' for high-reliability electronic product surfaces due to its excellent solderability, linearity, and good flatness. In 2025, global sales are projected to be approximately 15,200 tons, with an average market price of around \$10,700 per ton. The industry's gross profit margin is expected to be in the range of 35%-50%.

ENEPIG, compared to ENIG, has an additional palladium layer between the nickel and gold layers. This palladium layer acts as both a barrier layer and provides soldering and bonding capabilities. It further protects the nickel layer from corrosion and prevents the black pad issue that can occur with ENIG surface treatment, significantly improving the functionality and reliability of the product. With the gradual phasing out of traditional SnPb solder, terminal surface treatments must meet RoHS and other hazardous substance restrictions while also being compatible with lead-free solder. ENEPIG is widely considered a RoHS-compliant, general-purpose lead-free surface treatment solution.

This report studies the global ENEPIG Chemicals production, demand, key

manufacturers, and key regions.

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

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

Global ENEPIG Chemicals total production and demand, 2021-2032, (Tons)

Global ENEPIG Chemicals total production value, 2021-2032, (USD Million)

Global ENEPIG Chemicals production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global ENEPIG Chemicals consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: ENEPIG Chemicals domestic production, consumption, key domestic manufacturers and share

Global ENEPIG Chemicals production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global ENEPIG Chemicals production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global ENEPIG Chemicals production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global ENEPIG Chemicals 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 C. Uyemura, Atotech, Qnity Electronics, MacDermid Alpha Electronics Solutions, JCU, KPM Tech, YMT, Technic, Shenzhen Chuangzhi Semi-link Technology, Shenzhen ZhengTianWei Science&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 ENEPIG Chemicals 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 ENEPIG Chemicals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global ENEPIG Chemicals Market, Segmentation by Type:

Nickel Plating Solution

Palladium Plating Solution

Immersion Gold Plating Solution

Other

#### Global ENEPIG Chemicals Market, Segmentation by Function:

Main Salt

Reducing Agent

Complexing Agent

Stabilizer

Other

### Global ENEPIG Chemicals Market, Segmentation by Downstream Objects:

PCB

IC Substrate

FPC

### Global ENEPIG Chemicals Market, Segmentation by Application:

Automotive

Consumer Electronics

Telecommunications

Aerospace

Industrial

Other

### Companies Profiled:

C. Uyemura

Atotech

Qnity Electronics

MacDermid Alpha Electronics Solutions

JCU

KPM Tech

YMT

Technic

Shenzhen Chuangzhi Semi-link Technology

Shenzhen ZhengTianWei Science&Technology

**Key Questions Answered:**

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

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