

Global Semiconductor Surface Treatment Agents Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Surface Treatment Agents market size is expected to reach \$ 7492 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Semiconductor surface treatment agents refer to specialized wet electronic chemicals and functional formulation materials used in semiconductor wafer manufacturing, advanced packaging, compound semiconductors, display panels, and electronic component processes. They are mainly used for cleaning, etching, stripping, activation, wetting, corrosion prevention, passivation, and surface modification of silicon wafers, silicon oxide, silicon nitride, metal layers, dielectric layers, photoresist residues, CMP residues, particle pollution, organic pollution, and metal ion pollution. Common products include wafer cleaning agents, wet etching solutions, photoresist stripping solutions, post etching residual cleaning agents, CMP post cleaning agents, developing solutions, surface activators, anti-corrosion agents, passivators, and packaging pre-treatment agents. Their core function is to improve material surface cleanliness, etching selectivity, adhesion, wettability, low defect levels, and subsequent process compatibility. In 2025, global Semiconductor Surface Treatment Agents production reached approximately 965 K MT, with an average global market price of around US\$ 4,350 per MT.

Semiconductor surface treatment agents belong to high-frequency consumable materials in semiconductor wet electronic chemicals. The market demand mainly comes from process links such as wafer cleaning, wet etching, photoresist stripping, post etching residue cleaning, CMP post cleaning, advanced packaging pre-treatment, and metal interconnect surface protection. Among them, wafer cleaning agents and wet etching solutions are the main sales volume, while photoresist stripping solutions, post

etching cleaning agents, and CMP post cleaning agents are high-value functional formula products. With advanced logic, 3D NAND, AI chips, power semiconductors SiC?GaN? The expansion of advanced packaging and copper interconnect processes, as well as the increase in single wafer cleaning and surface treatment steps, continue to raise the requirements for low metal ion, low particle, low residue, high selectivity, low corrosion, and high compatibility materials. The future market growth will not only come from the expansion of wafer production capacity, but also from the increase in advanced process complexity and material grade upgrades. The price, certification barriers, and customer stickiness of high-end formula based surface treatment agents will continue to be higher than those of ordinary wet chemicals.

This report studies the global Semiconductor Surface Treatment Agents production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Surface Treatment Agents 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 Semiconductor Surface Treatment Agents that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Surface Treatment Agents total production and demand, 2021-2032, (Kilotons)

Global Semiconductor Surface Treatment Agents total production value, 2021-2032, (USD Million)

Global Semiconductor Surface Treatment Agents production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Semiconductor Surface Treatment Agents consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Semiconductor Surface Treatment Agents domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Surface Treatment Agents production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Semiconductor Surface Treatment Agents production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Semiconductor Surface Treatment Agents production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Semiconductor Surface Treatment Agents 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 DuPont, Merck KGaA(Versum Materials), ENF TECHNOLOGY, LG Chem, Mitsubishi Gas Chemical, Technic Inc, Fujifilm, Entegris, TOKYO OHKA KOGYO, Solvay, 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 Semiconductor Surface Treatment Agents market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Semiconductor Surface Treatment Agents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Surface Treatment Agents Market, Segmentation by Type:

Acid Treatment Agents

Alkaline Treatment Agents

Others

Global Semiconductor Surface Treatment Agents Market, Segmentation by Process Application:

CMP Polishing Solution

Photoresist Development

Photoresist Cleaning Agent

Other

Global Semiconductor Surface Treatment Agents Market, Segmentation by Application Stage:

Front-End Wafer Manufacturing

Back-End Advanced Packaging

Global Semiconductor Surface Treatment Agents Market, Segmentation by Application:

Wafer Fabrication

Chip Packaging

Other

Companies Profiled:

DuPont

Merck KGaA(Versum Materials)

ENF TECHNOLOGY

LG Chem

Mitsubishi Gas Chemical

Technic Inc

Fujifilm

Entegris

TOKYO OHKA KOGYO

Solvay

KC Tech

JSR Corporation

Ace Nanochem

SKC

Jiangyin Jianghua Microelectronics Materials

Anji Microelectronics Technology

Hubei Dinglong

Advanced NanoSurface Technologies

Key Questions Answered:

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

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