

ADVANCED CLEANING & SURFACE PREPARATION REPORT

FORMULATED CLEANS • POST CMP CLEANS •
SOLVENT CLEANS • SELECTIVE ETCHES

FORECASTS & INSIGHTS
TO OPTIMIZE MATERIALS,
PROCESSES & YIELD

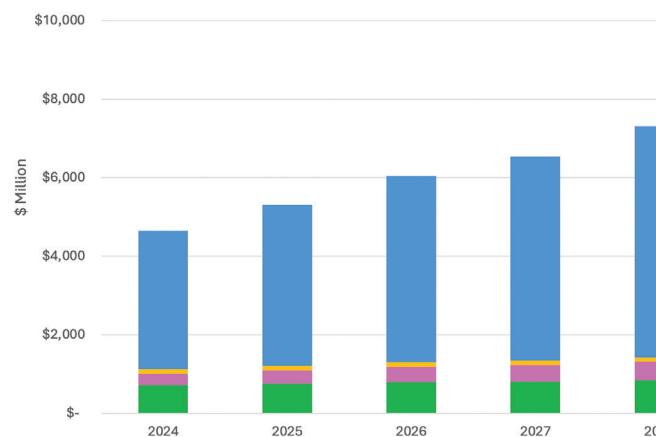
The Advanced Cleaning and Surface Preparation (ACSP) Report provides a comprehensive analysis of the critical materials and processes shaping the evolving cleaning ecosystem. As the semiconductor industry contends with ongoing **material innovations, shrinking defect tolerances, and increasingly complex high-aspect-ratio features**, the need for **robust and precise cleaning solutions** continues to grow. This report explores how advanced cleaning processes and continuous improvements in materials enable **effective contaminant removal, directly impacting yield** and supporting the advancement of semiconductor technologies.

The ACSP Report delivers actionable insights to address wafer preparation challenges and support strategic decision-making. It equips stakeholders with the knowledge needed to navigate a rapidly changing landscape and achieve higher, more consistent yields.

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Formulated Cleans



BENEFITS

- Extensive Forecasts**
 5-year consumption and growth projections across key cleaning segments, including Formulated Cleans, Residue Removal, Post-CMP Cleans, Solvent Cleans, and Selective Etches.
- Latest Technology Analysis**
 Insights into macro industry drivers and device trends such as ASIC, DRAM, and NAND, with analysis of their impact on semiconductor cleaning material demand.
- Comprehensive Process Coverage**
 End-to-end cleaning process insights from FEOL to BEOL, including wet cleans, and post-CMP cleaning.
- Detailed Supplier Dynamics**
 Market share by application and evolving supplier landscape across key segments.

METHODOLOGY

Our proprietary segment forecasts leverage direct input from key industry players in Asia, Europe and the USA, combined with the Linx Materials Forecast Model and emerging technology analysis. This report also integrates SEMI's primary and secondary research, including field interviews with key end users, equipment manufacturers, materials suppliers, and industry experts, to validate and enhance findings.

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REPORT HIGHLIGHTS

- **Market Coverage**
Annual forecasts for silicon wafers and formulated cleaning chemicals, broken down by segment and application.
- **Company Performance Tracking**
Exclusive annual sales insights on key suppliers & semiconductor firms for benchmarking.
- **Capacity & Materials Intensity Analysis**
Wafer fab capacity forecasts by product type and region, plus materials costs per wafer by segment.
- **Macroeconomic Analysis**
Key indicators—GDP, industrial production, CPI—to contextualize semiconductor market trends.
- **Full Semiconductor Industry Overview**
Analysis of sales, CAPEX trends, silicon MSI, inventory index, and utilization rates for a comprehensive outlook.



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SAMPLE
REPORT**

**MORE THAN
ONE USER?**

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DETAILS:

- **Publication Schedule:** Annually
- **Format:** PowerPoint
- **Principal Analysts:** Clark Tseng, SEMI and Linx Consulting

RELATED REPORTS:

- **Wafer Fab Materials Quarterly**
- **World Fab Forecast**

APPLICABLE TO: Semiconductor equipment and materials suppliers, IDMs, foundries, fabless companies, EDA firms, semiconductor IP providers, market analysts, consulting firms, government agencies, investors, and financial institutions.

REPORTS OF INTEREST

Explore our entire portfolio covering semiconductor manufacturing equipment, fab capacity and spending, wafer and packaging materials, and electronic design.

