

PROVEN, HIGH-PURITY PRODUCTS FOR SEMICONDUCTORS AND ELECTRONICS

AdvanSix is a leading U.S. manufacturer of high-purity chemical intermediates for the semiconductor and electronics industries. We are committed to delivering solutions that meet or exceed your needs for high-purity products, quality and reliability.

In addition, our products can help you achieve greater productivity, supply security and end-product performance. You can also tap into decades of industry experience by consulting with our research and development team to solve unique process challenges.

See below for details and for our contact information on the back page. We look forward to working with you soon.

Application Opportunities for You

As shown in Figure 1, the production process for semiconductors involves many steps, which is why AdvanSix offers a range of high-purity products that are proven to perform well in various applications.

Table 1 on the next page shows specific products and applications across the production process, from lithography, etching and CMP to polish grinding and cleaning. AdvanSix continues to innovate to meet future needs.

Figure 1: Semiconductor Process

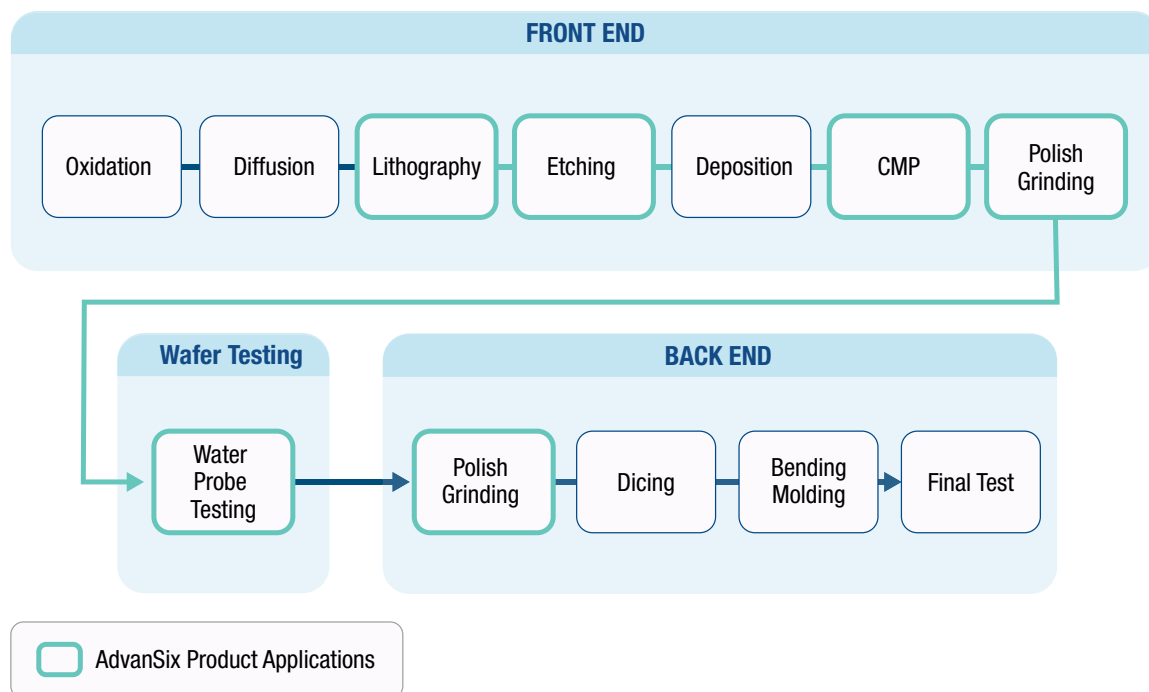
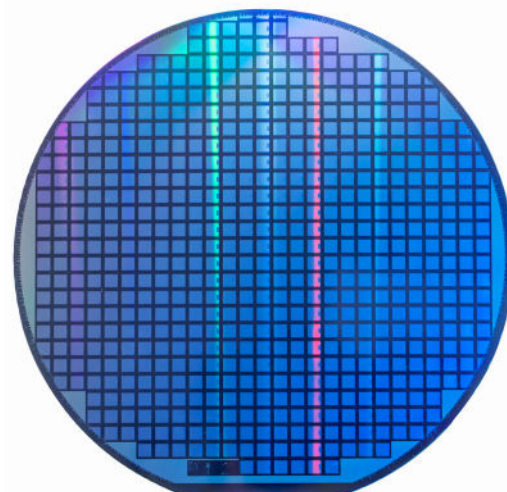


Table 1: High-Purity Products/Applications from AdvanSix

Products	Applications
Nadone® HDR® Cyclohexanone	Lithography: Solvent for photoresist formulations and a pre-wet solvent
Isopropyl Alcohol (IPA) <i>Ultra-High Purity</i>	Front-End: Main solvent for washing, drying and particle removal Cleaning: All wet process steps are followed by IPA treatment Dry Etch: Particle removal
Acetone	Cleaning
Alkyl Amines	Lithography: Additive in photoresist stripper formulations CMP: Post-CMP cleaner blends Polish/Grinding: Cleaner blends
Sulfuric Acid	Etching: Wet etchant “piranha acid” Lithography: Native oxide, particle and organic impurity elimination
Ammonia	Lithography: Developer and neutralizing agent Cleaning



Get the Value of Domestic Production

When you work with AdvanSix, you have the security of:

- **Supply stability**, ensuring that you get the right product at the right time without interruption.
- **Vertical integration**, which maintains a superior level of quality control, high purity and consistency with every shipment – which could improve productivity and yields.
- **Fast response**, thanks to manufacturing plants, research facilities and staff located in the United States.
- **Safety first**, with a supplier who has been recognized with ISO9001:2015 certification, RC14001® certification and ACC Responsible Care® safety awards.

Innovate Together for Ongoing Success

AdvanSix is committed to being your trusted partner. Together, we can tap into decades of industry experience and Advantaged Chemistries to develop innovative solutions to the many challenges you face, from process efficiency and product performance to sustainability.

Importantly, we are also focused on introducing sustainable solutions to the world – as evidenced by a growing product portfolio that reduces environmental impact and the 2021 Platinum Rating for Corporate Social Responsibility from EcoVadis.



Our knowledgeable scientists and engineers are ready to advance together with you for future success. Please contact us when you are ready to start.

Contact AdvanSix

To learn more about Chemical Intermediates, visit AdvanSix.com or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

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