

## MKS' Atotech unveils comprehensive product range for aluminum applications: Driving performance, sustainability, and innovation

Berlin, Germany, November 20, 2025 – Atotech, a leading surface finishing brand within the Materials Solutions Division of MKS Inc., announces its advanced portfolio of aluminum pretreatment technologies designed to meet the evolving demands of automotive, aerospace, electronics and industrial sectors. As aluminum continues to play a pivotal role in lightweighting and electrification, MKS' solutions deliver superior cleaning, corrosion protection, and adhesion performance – while supporting sustainability goals.

### The challenge

Aluminum's reactive surface and natural oxide layer present unique challenges for manufacturers. Improper pretreatment can lead to poor adhesion, corrosion, and downstream failures. With increasing use of recycled alloys and stringent environmental regulations, the need for innovative, sustainable solutions has never been greater.

### Our solutions

MKS' Atotech offers a full suite of technologies tailored for aluminum and its alloys:

- **UniClean® and UniPrep®** – next-generation cleaners engineered for aluminum pretreatment:
  - Mildly alkaline, non-etching formulation safe for a variety of cast as well as stamped and extruded alloys; multi-metal compatibility when needed
  - Low-temperature operation (from 35 °C) for reduced energy consumption
  - Free from phosphates, borates, amines, APEs, and CMR substances
  - Ideal for passivation, pre-paint, anodizing, and electroplating applications
- **Interlox® conversion coatings and passivates** – Advanced solutions for corrosion protection and adhesion:
  - Interlox® 377: Cr(III)-based passivate for exceptional corrosion resistance
  - Interlox® 4220: Ti-based passivate for welding and bonding applications
  - Interlox® 5707 and 5040: Zirconium-based coatings optimized for pre-paint applications
  - Ambient-temperature operation, minimal sludge formation, and multi-metal compatibility

- **Comprehensive pretreatment portfolio** including versatile soak, spray or multi-purpose cleaners, alkaline and acid etches and deoxidants for all aluminum applications

**Sustainability at the core**

All solutions are designed to minimize environmental impact through low-temperature operation, extended bath life, and compliance with global standards such as REACH, RoHS, and ELV. By reducing energy consumption and chemical usage, MKS' Atotech helps manufacturers achieve their ESG objectives without compromising performance.

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**About MKS Inc.**

MKS Inc. (NASDAQ: MKSI) enables technologies that transform our world. We deliver foundational technology solutions to leading edge semiconductor manufacturing, electronics and packaging, and specialty industrial applications. We apply our broad science and engineering capabilities to create instruments, subsystems, systems, process control solutions and specialty chemicals technology that improve process performance, optimize productivity and enable unique innovations for many of the world's leading technology and industrial companies. Our solutions are critical to addressing the challenges of miniaturization and complexity in advanced device manufacturing by enabling increased power, speed, feature enhancement, and optimized connectivity. Our solutions are also critical to addressing ever-increasing performance requirements across a wide array of specialty industrial applications. Additional information can be found at [www.mks.com](http://www.mks.com).

**About Atotech**

Atotech, a brand within the Materials Solutions Division of MKS Inc., develops leading process and manufacturing technologies for advanced surface modification, electroless and electrolytic plating, and surface finishing. Applying a comprehensive systems-and-solutions approach, the Atotech portfolio includes chemistry, equipment, software, and services for innovative and high-technology applications. These solutions are used in a wide variety of end-markets, including datacenter, consumer electronics and communications infrastructure, as well as in numerous industrial and consumer applications such as automotive, heavy machinery, and household appliances. With its well-established innovative strength and industry-leading global TechCenter network, MKS delivers pioneering solutions through its Atotech brand – combined with unparalleled on-site support for customers worldwide. For more information, please visit us at [atotech.com](http://atotech.com).

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