

Media Kit intelligent fluids

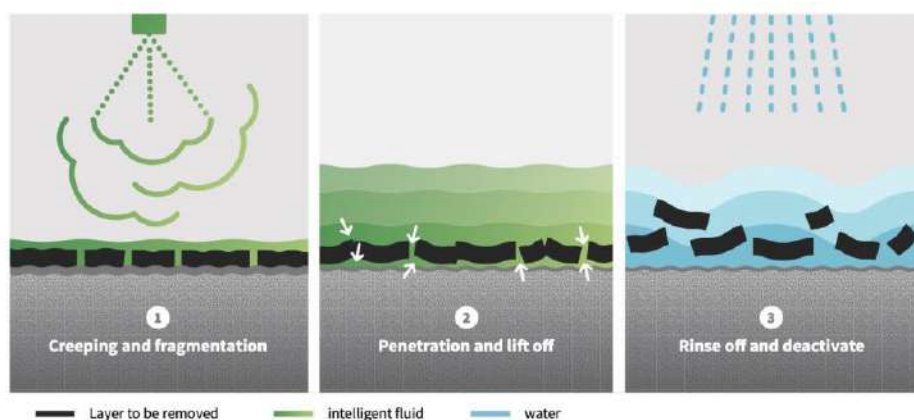
About intelligent fluids

Intelligent fluids GmbH is a pioneer in the field of green cleaning products for industrial customers. The German DeepTech company based in Leipzig and Leuna develops water-based products that have the potential to transform industrial cleaning from one of the most polluting sectors globally into a clean one, with zero concessions to performance. Instead of aggressive and harmful chemical solvents, intelligent fluids uses a completely new, science-based technology that physically removes organic contaminants. The technology won the FiT2clean Award at the parts2clean trade fair in Stuttgart in September 2023. The company's investors include sustainability funds such as Wave Equity Partners, IBG Sachsen-Anhalt and High-Tech Gründerfonds (HTGF).

About the technology

Intelligent fluids' innovative technology combines gentle ingredients to form complex phase fluids that are able to effectively and gently lift off contaminants. In contrast to solvent-based cleaners, there is no aggressive chemical dissolving or etching of the contaminated surfaces. Instead, contaminants are removed simply, quickly and gently through physical effects, protecting sensitive substrates and surfaces.

The complex interaction of the molecules within the cleaning fluid enables them to pass through organic layers. The lifted fragments can then be rinsed off completely with water or alcohol.



Advantages over conventional cleaning products

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Characteristics of cleaning agents from intelligent fluids:

- Water-based
- Biodegradable
- Dermatologically tested
- pH-neutral or pH-skin neutral
- Non-flammable
- Thermodynamically stable

The powerful cleaners offer a sustainable alternative to aggressive chemical cleaning agents. This results in numerous advantages. The cleaning agents from intelligent fluids are water-based and therefore less hazardous to people and the environment. Their use enables significant cost savings, due to improved cleaning effectiveness, longer usability, energy savings, better GHS classification and lower storage, disposal and safety costs.

Depending on the application, the cleaning products can be individually adapted to the customer's needs.

Applications for the industry

Based on its innovative cleaning technology, intelligent fluids develops customized solutions for various industries, with a particular focus on the maintenance and microelectronics industries. It also develops solutions for the oil and gas industry.

Maintenance

In the area of maintenance, cleaning products from intelligent fluids offer clear advantages over conventional solutions. They are able to effectively yet gently remove even stubborn dirt from machines, devices and surfaces.

Examples of applications in the area of maintenance:

- Cleaning surfaces, tanks, facades and terraces
- Paint stripping
- Removing grease and oil
- Removing fingerprints, stains and residues, for example on displays
- Removing graffiti

Microelectronics

In the production of sensors or chips, resist has to be removed again and again between each processing step, requiring maximum precision. The cleaning products from intelligent fluids are

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effective even at low process temperatures and during short process times. They can also be optimized for specific applications, making them perfect for modern microelectronics applications.

Examples of applications in the field of microelectronics:

- Equipment cleaning
- Metal lift-off
- Photoresist stripping
- Adhesive removal
- Glass and lens cleaning

Applications for private households

In addition to innovative solutions for industrial cleaning, intelligent fluids also offers a broad portfolio of cleaning products for the end customer market. The water-based B2C products are based on the same physical active principle and are characterized by particularly high environmental compatibility and effectiveness.

Examples of B2C products

- Glass cleaner
- Cockpit cleaner
- Stainless steel cleaner
- Hand cleaner
- Surface cleaner
- Brake cleaner
- And more

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Photos from the laboratory can be accessed here:

<https://drive.google.com/drive/folders/1nq8CvsDsN78OgoaRCIDP-1-NO1l0akxN?usp=sharing>