EVOSURF

PFAS-Free Hydrophobic and Oleophobic Nanocoating

EVOSURF is a line of PFAS-free coatings that impart hydrophobic and oleophobic properties to treated surfaces.

EVOSURF is designed to form an ultra-thin, durable, and functional surface barrier while maintaining unchanged optical transparency and electrical conductivity.

The very low surface energy of the products in the EVOSURF range (22 mN/m) allows them to :

- Limit the adhesion and spreading of water and oils.
- Reduce the adhesion of contaminants and dirt.
- Facilitate the release of parts from molds.
- Provide a barrier against corrosion and tarnishing.

EVOSURF is an effective alternative, offering superior performance in critical properties compared to current PFAS products such as: Fluoropel, Optool, Fluorolink, Cytop, Teflon AF...

The EVOSURF range offers an alternative to industrial PFAS coatings, with easy integration into your existing processes.

A solution designed to guarantee performance, durability, and regulatory compliance.

Technical specifications

Product	EVOSURF 7	EVOSURF 65	EVOSURF POLYMER
• **Hydrophobic** • **Oleophobic** • **Surface Energy**	Water Contact angle : 105° Mineral oil Contact angle : 53° 22 mN/m	Water Contact angle : 105° Mineral oil Contact angle : 53° 22 mN/m	Water Contact angle : 100-105° Mineral oil Contact angle : 52° 24 mN/m
Solvent characteristics	Volatile	Non-flammable	Volatile
• **Boiling Point** • **Flashpoint**	98°C -7°C	185°C 65°C	111°C 14°C
Coating thickness	< 50nm	< 50nm	250-350nm
Thermal resistance	~150 °C	~150 °C	~200 °C
Compatibles materials	Glass, ceramics, metals, PMMA, PC	Glass, ceramics, metals, PMMA, PC	Glass, ceramics, metals, PMMA, PC
Light transmission	100% (VIS / IR)	100% (VIS / IR)	100% (VIS / IR)

Application method

EVOSURF can be applied by either spraying or immersion, without the need for heavy equipment.

In its volatile form (EVOSURF 7), the part dries quickly, achieving a hydrophobic/oleophobic effect in just a few minutes.

The non-flammable version (EVOSURF 65) allows the product to be transported and stored without restrictions.

After application, rinsing or wiping with a cloth ensures an uniform coating. Annealing (not mandatory) dries the parts and enhances EVOSURF's adhesion to the surface.

Industrial validation - Tested performance

Test	Standard	Conditions	Objective / Criteria	Result
Corrosion (salt spray)	ISO 9227	NaCl 5 %, 35 °C, 48–240 h	No corrosion	✓
Humidity / condensation	IEC 60068-2-78	40 °C, 93 % RH, up to 1000 h	No corrosion, ion migration, or short circuit	✓
Thermal cycles	IEC 60068-2-14	−40 °C to +125 °C, 100–1000 cycles	Thermal stability of the coating	✓
Contact resistance	IEC 60512-2-1	-	< 10 mΩ, variation < 5 mΩ	✓
Solvent resistance			Chemical stability of the coating	✓

Why choose our solution ?

- Direct alternative to PFAS
- Compliant with industry standards
- Maintains critical performance
- Reduces regulatory risk

For more information, please contact our technical team

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