

High performance epilame

Episurf-Neo® is a high-performance epilame. An epilame product is a surface agent that prevents oil spreading by reducing the surface tension of the treated part.

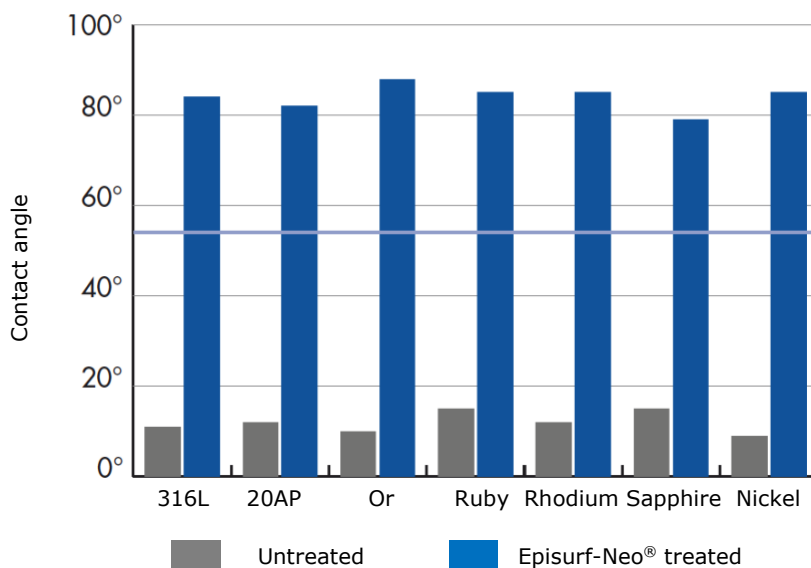
Episurf-Neo® is fixed in a self-assembled monolayer of constant thickness on all surfaces used in watchmaking. Its properties make it a reference epilame for watch parts, in production in watch manufacturers or in after-sales service workshops, in Switzerland and all over the world.

Episurf-Neo® is an invisible epilame, of nanometric thickness, whose application process is fast and reproducible. The performance of Episurf-Neo® allows an effective, durable and resistant epilame for many wash cycles.

Episurf-Neo® is an environmentally friendly product that complies with European and Swiss regulations.

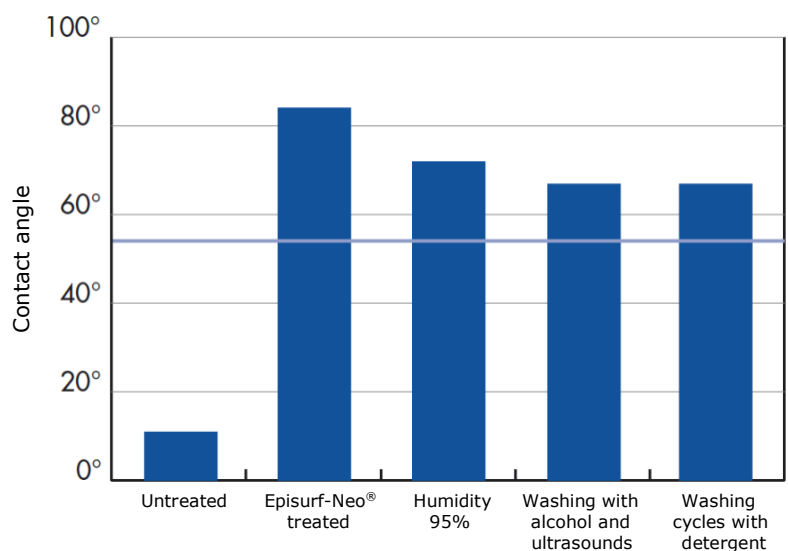
❖ PERFORMANCE

All the components of a watch mechanism, whatever the nature of the surface, can be effectively epilaminated with Episurf-Neo®.



Contact angle measurements with Moebius 941 oil on different materials before and after Episurf-Neo treatment

Contact angle measurements with Moebius 941 oil on rubies after Episurf-Neo treatment and after various tests.



An epilame is effective when the oil contact angle values are greater than 55° C (blue line).

❖ TECHNICAL PROCEDURE

- Regardless of the previous washing (solvents, detergents, ultrasound), the Episurf-Neo® treatment always offers the same performance.
- The coating procedure includes a dipping step for 30 seconds followed by drying for less than 60 seconds at room temperature.
- Watch parts are epilaminated in bulk or individually in baskets or on watch racks.
- The process can be applied manually (tank, bottle) or in a cleaning machine (HOROTEC VIBRATO, Elma, Greiner, others).

❖ PHYSICO-CHEMICAL PROPERTIES

Surface Tension	15 +/- 2dyn.cm ⁻¹
Aspect	Clear colourless
Flash point	None
Boiling Point	110° C
Freezing Point	< -90° C
Density at 25°C	1.58
Ozone Depletion Potential	0
Global Warming Potential	2.5
Atmospheric lifetime	<10 days

❖ PRODUCT INFORMATION

Episurf-Neo® is a ready-to-use solution available in 50 ml, 100 ml or 1 litre bottles.

Episurf-Neo® is composed of a perfluoropolyether phosphonate dissolved in a fluorinated solvent. Precautions for use are described in the safety data sheet. Episurf-Neo® is a non-flammable and non-explosive product.

The Episurf-Neo® product is patented by Surfactis Technologies (patents no. WO2008/017721 and WO2017/144480).

Surfactis Technologies is ISO 9001 certified.



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