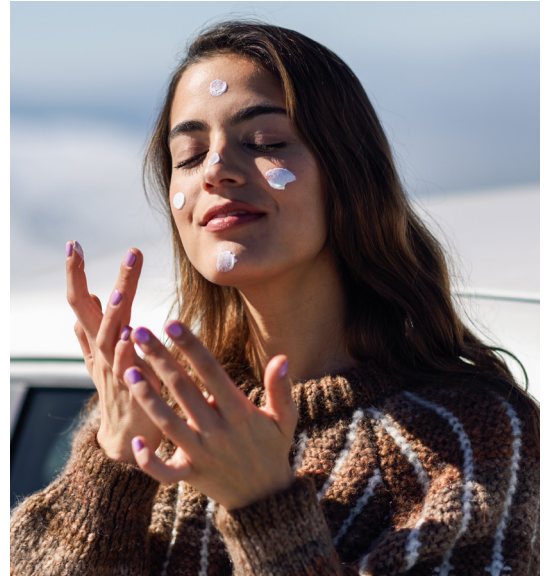
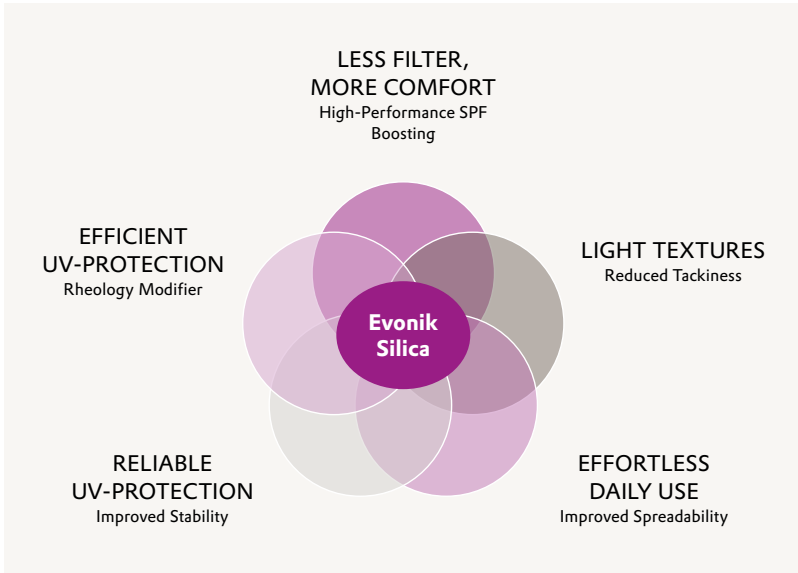


Multifunctional sun care solutions: smart **SPF-Boosting** with Evonik Silica



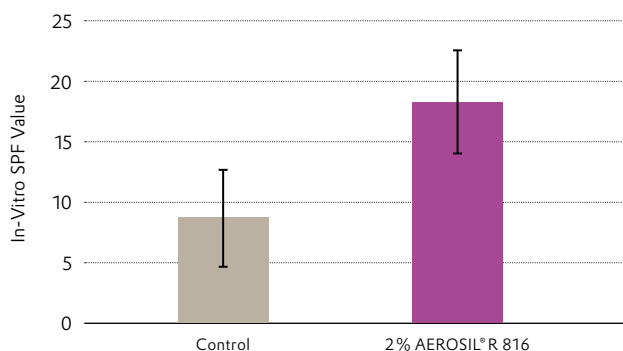
Sun protection is not just a summer essential; it's a daily investment in the long-term health and beauty of your skin. Consistent sun protection helps to prevent not only sunburn but also premature skin aging, dark spots, dehydration, loss of skin elasticity and reduces the risk of skin cancer caused by UV radiation. As one of the most essential pillars of skin care, sun protection formulations must continually evolve to become more effective, powerful, and multifunctional.

With AEROSIL®, UV-filter concentrations can be reduced while maintaining – or even increasing – the SPF level. At the same time, AEROSIL® enhances spreadability, ensuring an even, seamless application and uniform protection across the skin with a silky finish. It also stabilizes the entire formula, guaranteeing consistent performance from the first pump to the very last drop.

SPF-Boosting: Reducing the UV Filter concentration with the help of AEROSIL®

By promoting a higher viscosity and spreadability, it increases the efficiency of sunscreen products. This allows formulators to reduce total UV filter load while maintaining or improving SPF performance.

O/W Sunscreen Lotion – Mineral System



Just 2 % AEROSIL® R 816 boost the SPF of this oil in water sunscreen lotion from 8 to an impressive 18, delivering significantly enhanced UV protection with minimal addition!

Stability improvement for every application format:

AEROSIL® stabilizes emulsions via the Pickering effect, where particles form a protective layer at the oil-water interface and prevent droplet coalescence.

In sun oils, **AEROSIL® provides a strong anti-settling effect**, keeping mineral UV filters like TiO₂ and ZnO uniformly suspended and preventing sedimentation over time.

In stick formulations, **AEROSIL® enhances thermal stability**, ensuring better structural integrity under elevated temperatures.

Emulsion stability



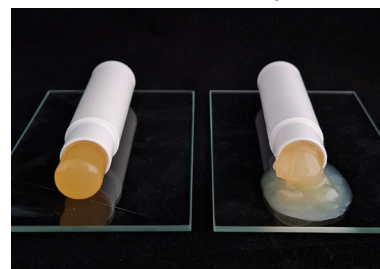
left: with AEROSIL®; right: without Silica

Anti-settling of mineral UV filters



left: with AEROSIL®; right: without Silica

Thermal stability



left: with AEROSIL®; right: without Silica

High compatibility in different sunscreen systems:

SYSTEM	RECOMMENDED PRODUCT
O/W sun lotion with mineral UV- Filter	AEROSIL® R 816
W/O sun lotion with organic UV- Filters	AEROSIL® R 974
W/O sun lotion with mineral UV- Filters	AEROSIL® R 974
Sun oil with organic UV-Filters	AEROSIL® R 816, AEROSIL® R 974, AEROSIL® R 805
Sun oil with mineral UV-Filters	AEROSIL® R 816

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