

Fluo-ST1

Hydrophobic Surface Treatment

OVERVIEW

Fluo-ST1 is a hydrophobic surface treatment reagent from Emulseo. It is a fluorophilic surface coating agent for enhanced performance and stability of aqueous droplets in fluorinated oils. Fluo-ST1 is composed of fluoroalkylsilanes that are chemically reactive to plasma etched glass and polydimethylsiloxane (PDMS) surfaces. After treatment, a uniform fluorophilic layer is covalently attached to surfaces of the microfluidic devices (Contact angle $\approx 105^\circ$). This allows a better performance and stability of aqueous droplets formed in fluorinated oils. Fluo-ST1 is especially adapted for use with Emulseo's surfactants and oils.

BENEFITS



Droplet performance and stability improvement



Easy-to-use surface treatment



Reproducibility of microfluidic experiments

RECOMMENDATION

For best results:

- Fill the microfluidic channels with Fluo-ST1 and flush the excess
- Place the microfluidic chip in an oven at 65°C overnight

STORAGE

The surface treatment from Emulseo can be stored at room temperature in the supplied vial or in a glass syringe purged with argon for four months without deterioration in performance. Change the needle before each manipulation.

SAFETY NOTES



Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing mist or vapour.

For additional information, see the Material Safety Data Sheet

After use, dispose of the products in an appropriate waste container in accordance with local regulations



CONTACT

If you have any queries, please do not hesitate to e-mail us at: contact@emulseo.com

 FLUO-ST1 - HYDROPHOBIC SURFACE TREATMENT