

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-ST2 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 six 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



CONTACT

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