



Silwet* Hydrostable 68

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Description

Silwet Hydrostable 68 superspreader is an organomodified siloxane that provides surface tension reduction and superspreading properties to aqueous solutions while remaining stable in a formulation from pH 6-8.

Key Features and Benefits

Silwet Hydrostable 68 superspreader reduces surface tension in aqueous solutions at use levels up to 0.5% by weight. Typical recommended starting levels are 0.05-0.1%.

Silwet Hydrostable 68 superspreader provides surface tension reduction down to 21 mN/m. It also causes aqueous solutions to wet most substrates with contact angles < 5° and provides spread areas more than 100 times greater than the corresponding volume drop of pure water, and 25 times greater than solutions of conventional surfactants.

The associated benefits are antifogging, sheeting, quick-dry, hard water spot elimination and penetration of the solution to deliver dissolved materials to otherwise unreachable locations.

Typical Physical Properties

Appearance	Straw-colored liquid
Viscosity @ 25°C, cSt	20
Surface Tension (0.1%) mN/m	21.0
Ross Miles Foam Height (mm)	40
Pour Point, (°C)	2
Flash Point, PMCC, °C (°F)	116 (240)
Specific Gravity @ 25°C	1.007
Solubility (5%)	
Water	Dispersible
Methanol	Soluble
Isopropanol	Soluble
Mineral Oil	Dispersible

Potential Applications

Silwet Hydrostable 68 superspreader is recommended for use in home care formulations where pH can be controlled between 6 and 8. For example manual

dishwashing liquid, automatic dishwashing formulations, car wash, polishes and neutral hard surface cleaners.

Processing Recommendations

A 10 µL droplet of Silwet Hydrostable 68 superspreader solution was placed on a polystyrene substrate, and its relative spread area after 30 seconds was compared with water and a conventional surfactant solution.

Solution	Concentration	Relative Spread Area
Water	n/a	1
Organic Surfactant	0.5 wt. %	4
Silwet Hydrostable 68 superspreader	0.1 wt. %	130

Patent Status

Protected by one or more US and foreign patent applications.

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