STEP-FLOW® T6

Stepan
Crop Productivity



Optimize Seed Treatment Performance with Film Former STEP-FLOW® T6

STEP-FLOW® T6 is a high-performance non-CLP classified film former designed for Flowable Seed Treatments (FS). STEP-FLOW® T6 delivers excellent performance at low dosage levels, improves seed flowability, minimizes dust generation, and supports the development of robust, high-quality seed treatment formulations.

Key Benefits

- **Microplastic-free film former for seed treatment applications**
- **Non-CLP classified and compatible with microorganisms**
- **Superior reduction of dust formation on treated seeds**
- **Achieves excellent performance with lower dosage levels**
- **Multifunctional solution acting as both a film former and dispersant**
- **Improves seed flowability and handling**

Typical Properties

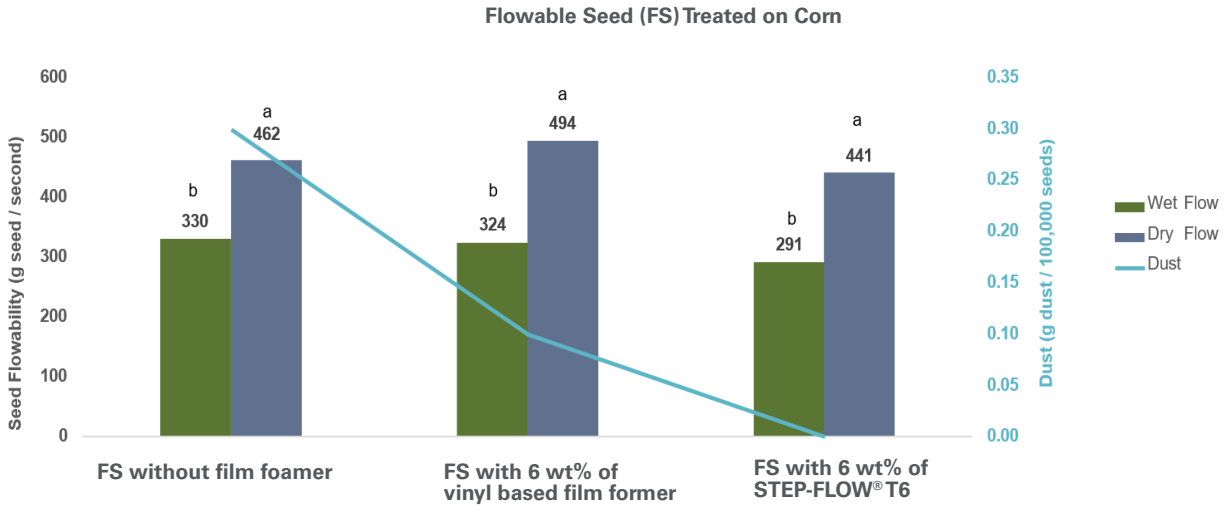
Form at 25°C	Viscous liquid
PH (10% Solids in 50:50 IPA:DI Water)	8.0-10.9
Density at 20°C g/mL	1.14
Actives, %	90
Solubility in water	Soluble
Flash Point, PMCC, °C	>94

Regulatory

REACh	Registered
EPA 40 CFR 180	✓

Dust Reduction and Seed Flowability

This example compares Flowable Seed (FS) formulations containing no film former, 6 wt% of STEP-FLOW® T6, and 6 wt% of a standard vinyl film former applied on corn seeds. Under identical application conditions, FS formulations based on STEP-FLOW® T6 delivered a significant reduction in dust-off, exceeding the strict European ESTA quality guideline (<0.75 g/100,000 seeds) in Heubach testing while maintaining optimal seed flowability, matching the industry's leading benchmark.

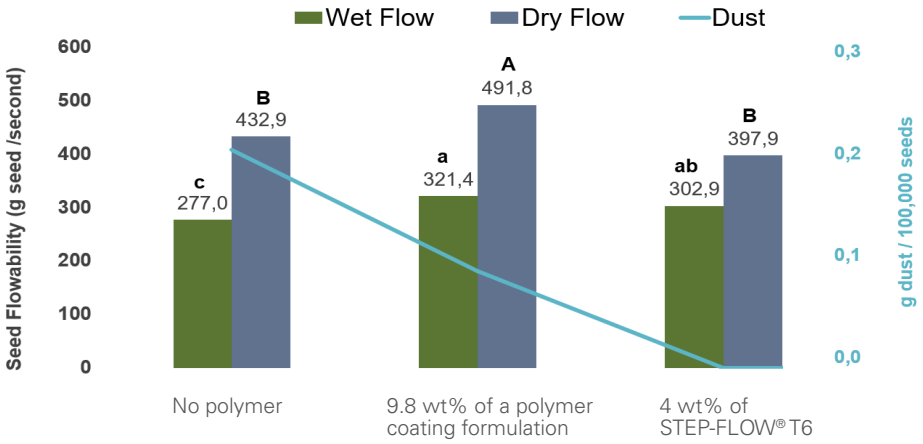


Testing conditions:

The FS formulations have been diluted into water and applied on corn seeds using a use rate of 14 mL FS per 50.000 seeds and a spray volume of 196 mL per 50.000 seeds.

Outsdanding Performance at Lower Dosage Level

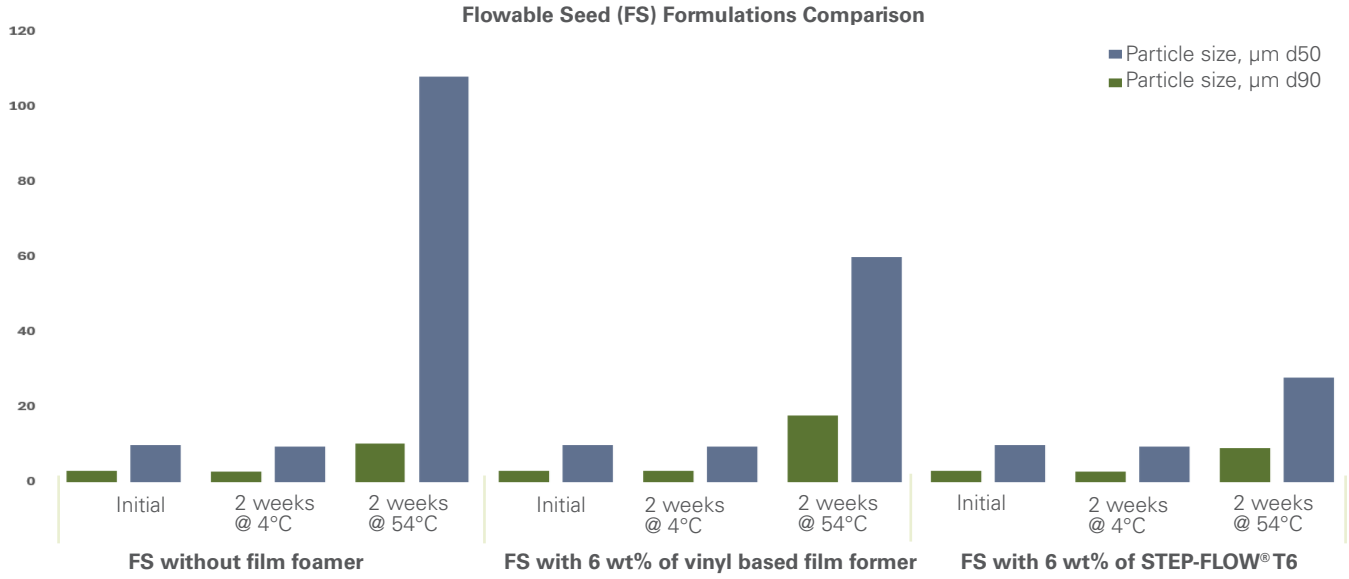
STEP-FLOW® T6 achieved superior dust reduction at only 4 wt% dosage, compared with a 26 wt% polymer coating formulation (30% active), demonstrating effective dust control even at low addition levels.



Long-Term Storage Stability of FS Formulations Containing STEP-FLOW® T6

STEP-FLOW® T6 delivers outstanding storage stability, preserving Flowable Seed (FS) formulation quality even under high temperature.

This graph compares the particle size distribution (d50 and d90) of flowable seed formulations containing no film former, 6 wt% vinyl-based film former, or 6 wt% STEP-FLOW® T6 after storage at 54°C. The formulation containing 6 wt% STEP-FLOW® T6 showed the lowest particle size increase, with a d90 value of 27 µm, compared to 60 µm for the vinyl-based film former and 108 µm for the formulation without film former.



Preventing Sedimentation and Flocculation with STEP-FLOW® T6

Unlike standard formulations, which exhibited sedimentation and visible flocculation after accelerated aging at 54°C, the FS formulation containing 6wt% of STEP-FLOW® T6 remained homogeneous and sediment-free throughout all storage conditions tested.

Reach out to your local Stepan sales representative to learn more about STEP-FLOW® T6 and our full line of agricultural products. Visit stepan.com/agriculture for more information or to order samples.

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