

PROPEL SSP™ Proppant Transport Technology

Increase stimulated reservoir volume to reduce cost per BOE.

TECHNICAL FEATURES

- Uniform proppant distribution in water
- Efficient proppant transport through fracture network
- Compatible with conventional chemical breakers
- Identical crush strength and conductivity of uncoated proppant
- Shear-stable polymer coating integrity during blending and transport
- Coated on Northern White sand, 16/30 to 100-mesh proppant sizes

COMPARED WITH SLICKWATER

- Reduces chemical and water consumption
- Limits abrasion on pressure pumping equipment
- Improves retained permeability

COMPARED WITH CONVENTIONAL GEL

- Simplifies fluid chemistry
- Remains in-zone
- Improves regain conductivity

PROPERTIES

	pH	Coating Size	Hydration Time	Bulk Density	Viscosity
Propel SSP	9.7	1-3 µm	< 30 seconds	*Same as substrate	5-7 c Ps per PPG

OPERATING RANGE

	pH	Temperature	Water Hardness
Propel SSP	5.3-12.3	35-380 °F	< 1000 ppm

*Refer to substrate's technical data sheet

EFFECTIVE SPECIFIC GRAVITY AND SIZE OF PROPPANT IN SLURRY

FOR PROPPANT SUBSTRATE WITH 2.65 G/CC ABSOLUTE DENSITY					
Raw Baseline -->	Expansion %	Effective Specific Gravity	Effective Mean Particle Diameter (micron)		
			20/40	30/50	40/70
	0	2.6	600	410	320
Typical	50	2.1	685	468	365
	100	1.8	754	515	402
	150	1.6	812	555	433
	200	1.5	863	590	460
	250	1.5	908	621	485
	300	1.4	950	649	507
	400	1.3	1023	699	546

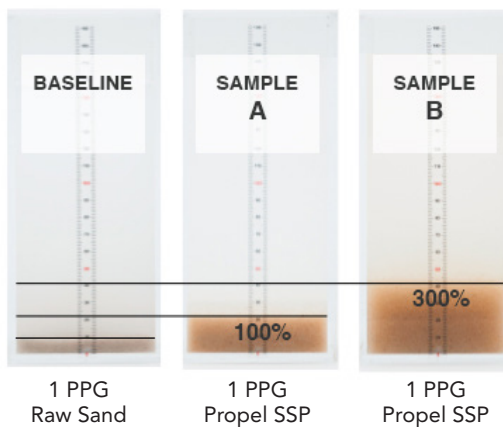
Expansion %: Volumetric expansion of hydrated Propel SSP vs. raw substrate of equal mass in identical containers.

Effective Mean Particle Diameter (MPD): Calculated mean particle diameter for hydrated proppant with Propel SSP.

Effective Specific Gravity: Calculated specific gravity for hydrated proppant with Propel SSP.

VISUAL REPRESENTATION OF EXPANSION %

(KEEP ABOVE 50%)



Data listed has been generated by Fairmount Santrol and independent laboratories. Every real-world sampling is different, so your results may vary. Data is for direction purposes. Additional testing is suggested for specific conditions of source water and fluid chemistry, prior to pumping.

The information contained in this data sheet is for general application and is believed to be accurate at the time of printing. Fairmount Santrol makes no warranty, expressed or implied, concerning these products except that these products shall conform to Fairmount Santrol specifications.

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