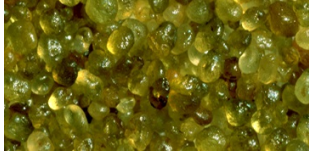


# Technical Data Sheet

## SB Prime<sup>™</sup> Proppants

### Description



SB Prime<sup>™</sup> proppant is an advanced, field proven, premium curable resin coated sand available in a 20/40 mesh size. With Hexion's Stress Bond<sup>™</sup> technology, the proppant bonds in the fracture with closure stress, providing high conductivity and proppant flowback control.

### Typical Applications

Fracture treatments:

- At closure stress up to 10,000 psi [69 MPa]
- Bottom-hole static temperatures from 160 - 450°F [71 - 232°C]
- Where high conductivity and proppant flowback control are desired

### Technical Advantages and Benefits

- Reduces proppant fines generation and migration
- Helps prevent proppant flowback
- Stress Bond technology helps prevent wellbore consolidation
- Frac fluid and breaker friendly

### Typical Properties

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SB Prime<sup>™</sup> Proppants

<https://www.hexion.com/en-US/product/sb-prime>

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Property	Value	Unit
Absolute Volume	0.380 [0.0455]	cm <sup>3</sup> /g [gal/lb]
API Mesh Size	20/40	
Bulk Density	1.47 [12.3]	g/cm <sup>3</sup> [lb/gal]
Color	light green	
Compatibility	Fully compatible with most commonly used fracturing fluids, both water and oil-based systems. Testing fluids prior to pumping is advised.	
Composition	resin coated frac sand	
Median Particle Diameter	0.6618	mm
Particle Size Distribution	meets or exceeds API RP 19C	
Physical State	solid granule	
Pipe Fill Factor	0.680 [0.0813]	cm <sup>3</sup> /g [gal/lb]
Resin Type	thermosetting, curable	
Solubility in Water, Brine & HCl	nil	weight %
Solubility in HCl/HF acid, API RP 19C	&#60; / = 3	weight %
Solubility In Oil	nil	weight %
Specific gravity	2.63	
Turbidity	< 250	NTU (FTU)

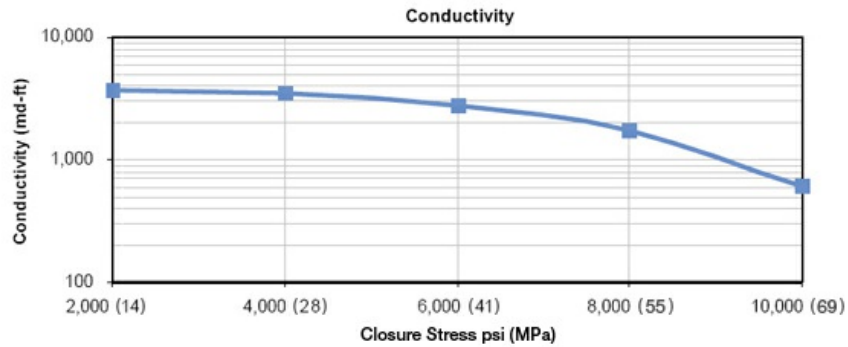
## Technical Considerations

- Grain-to-grain contact must occur and closure stress must be applied during the cure period for proper bonding
- Consolidation of curable products at bottom-hole static temperatures below 160°F [71°C] is achieved by use of Hexion's AcTivator™ consolidation aid

### Long-term Conductivity

Stim-Lab, Inc. Proppant Consortium Baseline Procedure  
2 lb<sub>m</sub>/ft<sup>3</sup> [9.8 kg/m<sup>3</sup>], 250°F [121°C]

Closure Stress psi (MPa)	2,000 (14)	4,000 (28)	6,000 (41)	8,000 (55)	10,000 (69)
Size	Conductivity (md-ft)				
20/40	3718	3535	2809	1716	602



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