

SB Prime

Curable Resin Coated Sand

Description

SB Prime™ proppant is an advanced, field proven, premium curable resin coated sand available in a 20/40 mesh size. SB Prime's resin is applied to a special grade of high quality frac sand. Incorporating Hexion's Stress Bond™ (SB) resin system technology, the proppant bonds in the fracture with closure stress, providing increased fracture flow capacity and proppant flowback control.

Typical Applications

- Up to 10,000 psi closure stress
- Bottom-hole static temperatures from 160 – 450°F [71 – 232°C]
- Where higher fracture flow capacity and proppant flowback control are desired

Chemical Properties	Typical
Composition	resin coated, special grade, high quality frac sand
Resin type	thermosetting, curable
Color	light green
Equilibrium pH*	8.8
Solubility, weight %	
in water, brine & HCl	nil
in HCl/HF acid, API RP-56	≤ 0.3
in oil	nil
Compatibility	
Fully compatible with most, if not all, commonly used fracturing fluids, both water and oil-based systems. Testing with fluids prior to pumping is advised.	
* Hexion test procedure #167.	

Technical Advantages and Benefits

- Reduces proppant fines generation and migration
- Prevents proppant flowback
- Stress Bond technology prevents wellbore consolidation
- Frac fluid and breaker friendly

Technical Considerations

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

Physical Properties	Typical
API mesh size	20/40
Physical state	solid particulate
Particle density	
g/cm ³ [lb _m /gal]	2.63 [21.9]
Specific volume,	
cm ³ /g [gal/lb _m]	0.38 [0.0456]
Bulk density	
g/cm ³ [lb _m /gal]	1.47 [12.27]
Pipe fill factor	
cm ³ /g [gal/lb _m]	0.680 [0.0815]
Krumbein shape factors,	
roundness	0.6 - 0.7
sphericity	0.6 - 0.7
Particle size distribution	meets or exceeds API RP-56
Turbidity, NTU (FTU)	< 250

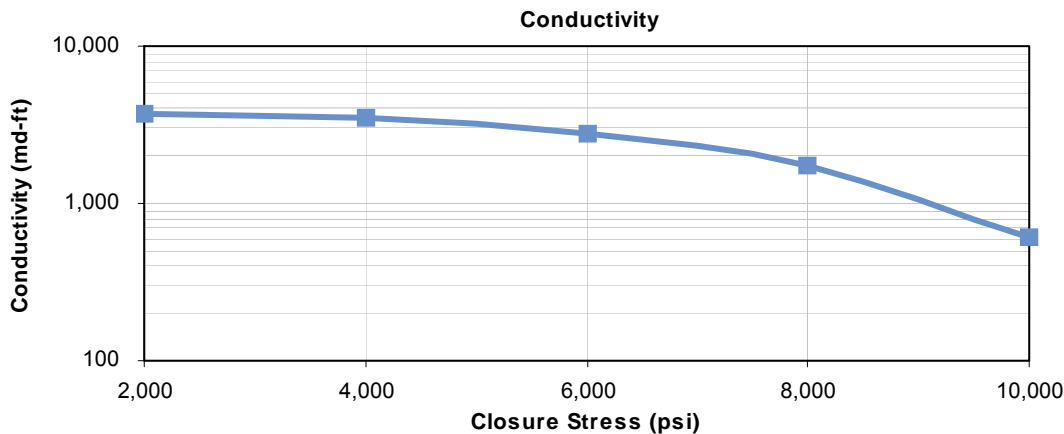
SB Prime

Curable Resin Coated Sand

Long-term Conductivity

Stim-Lab, Inc. Proppant Consortium Baseline Procedure
2 lb_m/ft² [9.8 kg/m²], 250°F [121°C]

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



HEXION™

Oilfield Technology Group

15366 Park Row
Houston, TX 77084 USA
+1 281 646 2800
hexion.com/oilfield

For worldwide locations visit hexion.com

®, ™ and ™ are trademarks owned or licensed by Hexion Specialty Chemicals, Inc.

© 2010 Hexion Specialty Chemicals, Inc. 5/10

The information provided herein was believed by Hexion Specialty Chemicals ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the products and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for sale of any product.