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

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

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.	

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

HEXION™

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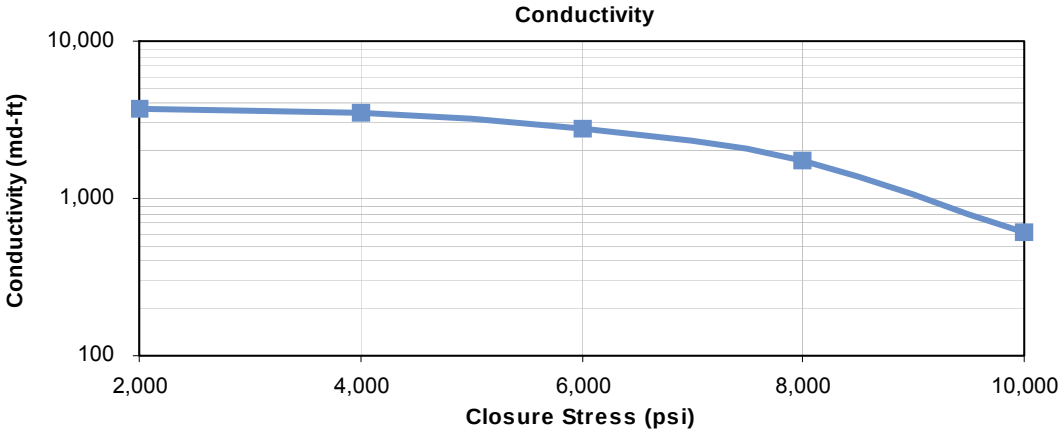
Long-term Conductivity

Stim-Lab, Inc. Proppant Consortium Baseline Procedure
2 lb_m/ft^2 [9.8 kg/m^2], 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



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