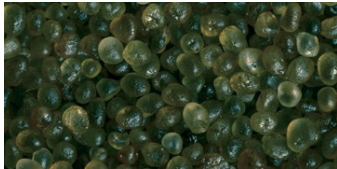


Technical Data Sheet

SB Excel[™] Proppants

Description



SB Excel[™] proppants are a curable resin coated sand available in a 20/40 mesh size. Greenish-brown in color, the SB Excel proppant resin is easily recognizable on location. One of the advantages of Stress Bond[™] technology is proppant pack consolidation only occurs under the correct amount of temperature and stress.

Typical Applications

Fracture treatments:

- At closure stress up to 8,000 psi [55 MPa]
- At bottom-hole static temperatures from 160 - 450°F [71 - 232°C]

Technical Advantages and Benefits

- High conductivity - improved post treatment well production
- Lower fines generation/migration - high long-term conductivity
- Proppant flowback control - high production rates/reduced wellbore cleanouts

Typical Properties

SB Excel[™] Proppants

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

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Property	Value	Unit
Absolute Volume	0.386 [0.0463]	cm ³ /g [gal/lb]
API Mesh Size	20/40	
Bulk Density	1.46 [12.2]	g/cm ³ [lb/gal]
Color	greenish-brown	
Compatibility	Fully compatible with most commonly used fracturing fluids, both water and oil-based systems. Testing with fluids prior to pumping is advised.	
Composition	resin coated frac sand	
Median Particle Diameter	0.6384	mm
Particle Size Distribution	meets or exceeds API RP 19C	
Physical State	solid granule	
Pipe Fill Factor	0.685 [0.0820]	cm ³ /g [gal/lb]
Resin Type	thermosetting, curable	
Solubility in Water, Brine & HCl	nil	weight %
Solubility in HCl/HF acid, API RP 19C	< / = 3	weight %
Solubility In Oil	nil	weight %
Specific gravity	2.59	
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 product at bottom-hole static temperatures below 160°F [71°C] is achieved by use of Hexion's AcTivator™ low temperature consolidation aid

Long-Term Conductivity

Stim-Lab, Inc. Consortium Long-Term Baseline Procedure

Proppant Concentration: 2 lb_m/ft² [9.8 kg/m²], Temperature: 250°F [121°C]

SB Excel™ Proppants

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

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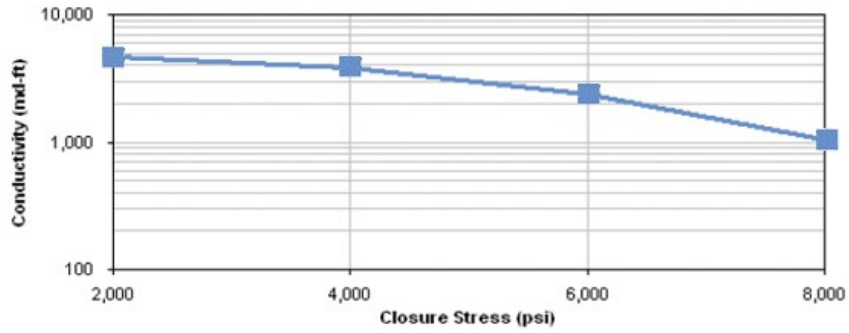
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Closure Stress (psi)	2,000	4,000	6,000	8,000
Size	20/40			
Conductivity (md-ft)	4630	3873	2357	1031



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