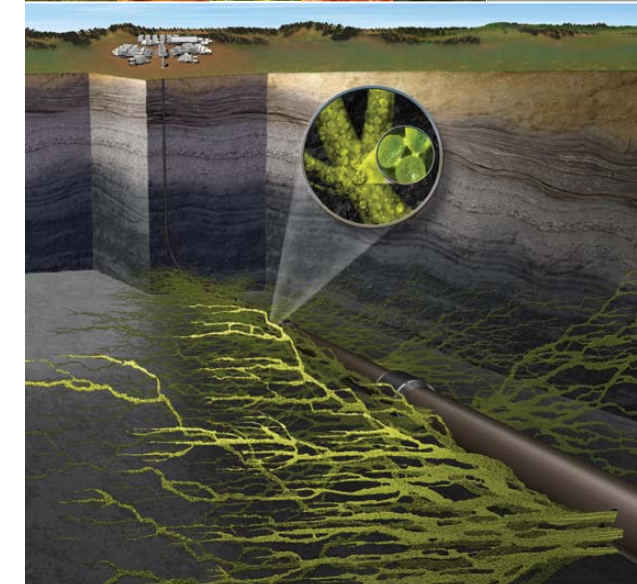
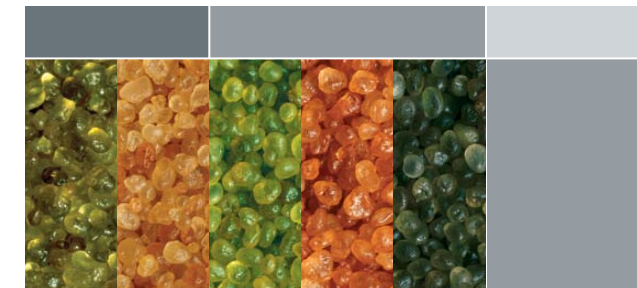


## Performance Data

Description	Conductivity (md-ft)							Typical Applications
	14 (2,000)	28 (4,000)	41 (6,000)	55 (8,000)	69 (10,000)	83 (12,000)	97 (14,000)	
<b>Curable Sands</b>								
<b>SB Prime™</b> Premium Resin Coated Sand with Stress Bond™ Technology	<i>Tested at 121°C (250°F)</i>							Up to 69 MPa (10,000 psi) closure stress. Stress Bond technology provides improved fracture flow capacity and proppant flowback control, especially under severe cyclic stress.
20/40	3,718	3,535	2,809	1,716	602	—	—	
<b>Prime Plus™</b> Premium Resin Coated Sand with Stress Bond Technology	<i>Tested at 121°C (250°F)</i>							Up to 69 MPa (10,000 psi) closure stress. Advanced resin technology with a proven history of success in the field.
30/50	2,125	1,710	1,098	720	391	—	—	
40/70	936	825	669	447	227	—	—	
<b>SB Excel™</b> Resin Coated Sand with Stress Bond Technology	<i>Tested at 121°C (250°F)</i>							Up to 55 MPa (8,000 psi) closure stress. Stress Bond technology provides improved fracture flow capacity and proppant flowback control.
20/40	4,630	3,873	2,357	1,031	—	—	—	
<b>SiberProp™</b> Low Temperature Resin Coated Sand with Stress Bond Technology	<i>Tested at 66°C (150°F)</i>							Up to 55 MPa (8,000 psi) closure stress. No AcTivator™ consolidation aid required above 54°C (130°F). Optimized AcTivator consolidation aid recommendations are available. Excellent conductivity at lower closure stresses.
16/30	5,089	4,125	2,657	1,226	—	—	—	
20/40	2,816	2,339	1,625	901	—	—	—	
<b>Precured Sand</b>								
<b>PR6000™</b> Precured Resin Coated Sand	<i>20/40 tested at 121°C (250°F) 30/50 tested at 66°C (150°F)</i>							Up to 55 MPa (8,000 psi) closure stress. Low cost alternative to uncoated frac sand.
20/40	4,625	3,539	2,075	918	—	—	—	
30/50	2,076	1,467	995	539	—	—	—	

Note: Data generated by Stim-Lab, Inc. using Consortium Long-term Baseline Procedure at temperature and 2 lb/ft<sup>3</sup> proppant concentration. For further performance data such as bond strength, crush resistance, and slurry effects, please visit our Web site at [momentive.com/oilfield](http://momentive.com/oilfield) (select Canada region).



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# Physical Properties

Resin Coated Proppants

	Curable Sands										Precured Sand						
																	
	<b>SB Prime</b> Premium Resin Coated Sand with Stress Bond <sup>1</sup> Technology		<b>Prime Plus</b> Premium Resin Coated Sand with Stress Bond Technology			<b>SB Excel</b> Resin Coated Sand with Stress Bond Technology		<b>SiberProp</b> Low Temperature Resin Coated Sand with Stress Bond Technology			<b>PR6000</b> Precured Resin Coated Sand						
<b>Mesh Size</b>	20/40		30/50			40/70		20/40		16/30		20/40		20/40		30/50	
<b>Median Diameter</b> <i>mm</i>	0.670		0.450			0.325		0.640		0.910		0.639		0.663		0.450	
<b>Typical Upper Closure Stress</b> <i>MPa (psi)</i>	69 (10,000)		69 (10,000)			69 (10,000)		55 (8,000)		55 (8,000)		55 (8,000)		55 (8,000)		55 (8,000)	
<b>Typical Temperature Range</b> <i>°C (°F)</i>	71–232 (160–450)		71–232 (160–450)			71–232 (160–450)		32–191 (90–375)		16–93 (60–200)		16–93 (60–200)		21–191 (70–375)		21–191 (70–375)	
<b>Typical AcTivator™ Consolidation Aid Temperature Requirements<sup>2</sup></b> <i>°C (°F)</i>	< 71 (160)		< 71 (160)			< 71 (160)		< 71 (160)		< 54 (130) <sup>3</sup>		< 54 (130) <sup>3</sup>		N/A		N/A	
<b>Typical Sieve Analysis</b>	Sieve No.	Weight %	Sieve No.	Weight %	Sieve No.	Weight %	Sieve No.	Weight %	Sieve No.	Weight %	Sieve No.	Weight %	Sieve No.	Weight %	Sieve No.	Weight %	
	16	trace	20	trace	30	trace	16	trace	12	trace	16	trace	16	trace	20	trace	
	20	1-8	30	1-8	40	1-8	20	1-8	16	1-8	20	1-8	20	1-8	30	1-8	
	25	> 90	35	> 90	45	> 90	25	> 90	18	> 90	25	> 90	25	> 90	35	> 90	
	30		40		50		30		20		30		30				
	35		45		60		35		25		35		35				
	40		50		70		40		30		40		40				
	50	1-4	70	1-4	100	1-4	50	1-4	40	1-4	50	1-4	50	1-4	70	1-4	
	pan	trace	pan	trace	pan	trace	pan	trace	pan	trace	pan	trace	pan	trace	pan	trace	
<b>Specific Gravity</b>	21.6		21.6			21.7		21.6		21.3		21.5		21.6		21.8	
<b>Pipe Fill Factor</b> <i>cm<sup>3</sup>/g gal/lb</i>	0.672 0.0805		0.685 0.0821			0.704 0.0844		0.669 0.0802		0.637 0.0763		0.641 0.0768		0.637 0.0763		0.633 0.0758	
<b>Specific Volume</b> <i>cm<sup>3</sup>/g gal/lb</i>	0.386 0.0463		0.386 0.0463			0.385 0.0461		0.386 0.0463		0.392 0.0469		0.389 0.0465		0.386 0.0463		0.383 0.0459	
<b>Bulk Density</b> <i>g/cm<sup>3</sup> lb/gal</i>	1.49 12.4		1.46 12.2			1.42 11.9		1.49 12.5		1.57 12.5		1.56 13.0		1.57 12.5		1.58 13.2	
<b>Typical pH Range</b>	8–9		8–9			8–9		8–9		8–9		8–9		8–9		8–9	
<b>Solubility</b> <i>(weight %)</i> HCl/HF acid, ISO 13503-2 <sup>4</sup>	≤ 0.3		≤ 0.3			≤ 0.3		≤ 0.3		≤ 0.3		≤ 0.3		≤ 0.3		≤ 0.3	
<b>Fracture Diagnostics</b>	All products are available with optional PropTrac <sup>SM</sup> Fracture Diagnostics technology for determining propped fracture height.																

Note: Data listed was generated by Momentive laboratory testing. Results may vary based on sample collection variability. Momentive proppants are compatible with most commonly used fracturing fluids, both water- and oil-based systems. Testing with fluids prior to pumping is advised. Some fluids may require adjustment of pH control, breaker, or foamer loading.

Avoid prolonged exposure to highly alkaline fluids (pH > 12 and/or > 2.2 gal 50% NaOH/1000 gal).

<sup>1</sup> Stress Bond technology requires both closure stress and temperature to form bonds.

<sup>2</sup> Momentive's AcTivator consolidation aid technical data can be found at [momentive.com/oilfield](http://momentive.com/oilfield) (select *Canada* region).

<sup>3</sup> For optimized AcTivator consolidation aid recommendations, contact a Momentive sales representative or [oilfield@momentive.com](mailto:oilfield@momentive.com).

<sup>4</sup> Supersedes API RP-56.