

Conductivity Data					
Description		Conductivity (md-ft)			
Closure Stress, MPa (psi)		14 (2,000)	28 (4,000)	41 (6,000)	55 (8,000) 69 (10,000)
Curable Sands					
Prime Plus™ Premium resin coated sand for high conductivity and proppant flowback control		Tested at 121°C (250°F)			
16/30		9,045	6,698	2,955	1,358 454
20/40		5,586	4,762	2,190	1,191 483
30/50		1,807	1,752	1,461	987 469
40/70		995	865	856	538 309
SB Excel™ Resin coated sand for high conductivity and proppant flowback control		Tested at 121°C (250°F)			
20/40		4,630	3,873	2,357	1,031 —
Yukon Black™ Resin coated sand for low temperature bonding without a consolidation aid		Tested at 66°C (150°F)			
16/30		8,631	5,202	2,397	1,069 —
20/40		3,297	2,923	2,342	1,133 —
SiberProp™ Resin coated sand for low temperature bonding without a consolidation aid		Tested at 66°C (150°F)			
16/30		5,089	4,125	2,657	1,226 —
20/40		2,816	2,339	1,625	901 —
kRT™ Resin coated sand for enhanced conductivity and proppant flowback control		Tested at 121°C (250°F)			
16/30		7,967	5,758	1,910	670 296
20/40		5,471	3,451	1,934	633 282
30/50		2,790	1,828	1,524	623 302
40/70		1,191	1,103	711	384 163
100		698	431	283	127 65
Precured Sand					
PR6000™ Precured resin coated sand		Tested at 121°C (250°F)			
16/30		6,259	5,155	3,046	1,302 336
20/40		4,949	4,054	2,577	1,254 418
30/50		2,723	2,214	1,513	720 312
40/70		1,339	991	665	278 132

Note: Data generated by PropTester, Inc. and Stim-Lab, Inc. using API Long-term Baseline Procedure at temperature and 2 lb/ft² proppant concentration.

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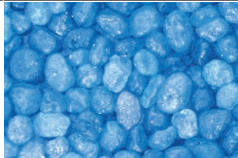

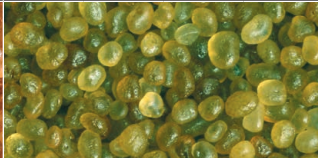
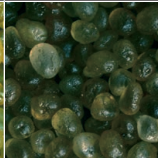

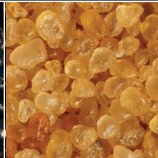




Resin Coated
Proppants



Physical Properties

Resin Coated Proppants

	Water Management			Oil Production Enhancement				Premium Curable Sand				Intermediate Curable Sand	Low Temperature Curable Sands					Economical Curable Sand					Precured Sand				
																											
	AquaBond™ Formation Water Reduction Technology Advanced resin system that reduces the production of formation water			OilPlus™ Premium Resin Coated Sand Increases the relative permeability to oil in the proppant pack, resulting in higher oil production				Prime Plus Premium Resin Coated Sand				SB Excel Intermediate Resin Coated Sand	Yukon Black Ultra-Low Temperature Resin Coated Sand	SiberProp Low Temperature Resin Coated Sand	kRT Economical Resin Coated Sand					PR6000 Precured Resin Coated Sand							
Mesh Size	20/40	30/50	40/70	16/30	20/40	30/50	40/70	16/30	20/40	30/50	40/70	20/40	16/30	20/40	30/50	16/30	20/40	16/30	20/40	30/50	40/70	100	16/30	20/40	30/50	40/70	
Typical Closure Stress	<i>MPa (psi)</i>	69 (10,000)		55 (8,000)	69 (10,000)			69 (10,000)		83 (12,000)		55 (8,000)	55 (8,000)		55 (8,000)		55 (8,000)		69 (10,000)		83 (12,000)	55 (8,000)		69 (10,000)			
Typical Temperature Range		49–232 (120–450)		49–232 (120–450)				54–232 (130–450)		43–232 (110–450)		71–232 (160–450)	24–71 (75–160)		54–232 (130–450)		60–232 (140–450)		43–232 (110–450)		21–232 (70–450)						
Typical AcTivator™ Consolidation Aid Temperature Requirements*		N/A		< 49 (120)				< 54 (130)		< 43 (110)		< 71 (160)	< 24 (75)		< 54 (130)		< 43 (110)				N/A						
Median Particle Diameter	<i>mm</i>	0.654	0.440	0.315	0.912	0.618	0.438	0.304	0.840	0.662	0.451	0.299	0.638	0.781	0.621	0.457	0.910	0.639	0.820	0.666	0.475	0.353	0.202	0.839	0.636	0.450	0.354
Specific Gravity		2.56	2.55	2.59	2.61	2.56	2.60	2.59	2.59	2.63	2.60	2.59	2.59	2.56	2.58	2.59	2.55	2.57	2.62	2.61	2.62	2.62	2.61	2.60	2.59	2.61	2.59
Pipe Fill Factor	<i>cm³/g gal/lb</i>	0.625 0.0749	0.662 0.0793	0.685 0.0821	0.680 0.0815	0.685 0.0821	0.690 0.0827	0.690 0.0827	0.653 0.0782	0.680 0.0813	0.690 0.0826	0.690 0.0826	0.685 0.0821	0.671 0.0806	0.662 0.0794	0.686 0.0823	0.637 0.0763	0.641 0.0768	0.665 0.0796	0.641 0.0768	0.694 0.0832	0.714 0.0855	0.704 0.0840	0.624 0.0748	0.637 0.0763	0.633 0.0759	0.699 0.0838
Specific Volume	<i>cm³/g gal/lb</i>	0.391 0.0469	0.392 0.0470	0.386 0.0463	0.383 0.0459	0.391 0.0469	0.385 0.0461	0.386 0.0463	0.386 0.0463	0.380 0.0455	0.385 0.0461	0.386 0.0463	0.386 0.0463	0.390 0.0467	0.388 0.0465	0.386 0.0462	0.392 0.0469	0.389 0.0465	0.381 0.0457	0.383 0.0459	0.382 0.0458	0.382 0.0458	0.383 0.0459	0.384 0.0460	0.386 0.0463	0.383 0.0459	0.0386 0.0463
Bulk Density	<i>g/cm³ lb/gal</i>	1.60 13.4	1.51 12.6	1.46 12.2	1.47 12.3	1.46 12.2	1.45 12.1	1.45 12.1	1.53 12.8	1.47 12.3	1.45 12.1	1.45 12.1	1.46 12.2	1.49 12.4	1.51 12.6	1.46 12.2	1.57 12.5	1.56 13.0	1.50 12.6	1.56 13.0	1.44 12.0	1.40 11.7	1.42 11.9	1.60 13.4	1.57 13.1	1.58 13.2	1.43 11.9
Acid Solubility	<i>(weight %)</i>	≤ 0.3		≤ 0.3				≤ 0.3				≤ 0.3	≤ 0.3		≤ 0.3		≤ 0.3					≤ 0.3					

Note: Data listed was generated by Hexion laboratory testing. Results may vary based on sample collection variability.
Hexion proppants are compatible with most commonly used fracturing fluids. 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).

*For optimized AcTivator consolidation aid recommendations, contact a Hexion sales representative or oilfield@hexion.com.