

Conductivity Data

Description	Conductivity (md-ft)						
Closure Stress (psi)	2,000	4,000	6,000	8,000	10,000	12,000	14,000
Curable Sands							
Prime Plus™ — Premium resin coated sand for high conductivity and proppant flowback control	(tested at 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	—	—
Black Ultra™ — Resin coated sand for low temperature bonding without a consolidation aid	(tested at 150°F)						
16/30	7,841	6,575	3,697	1,189	615	—	—
20/40	5,449	3,941	2,811	1,109	637	—	—
30/50	2,315	1,778	1,185	779	346	—	—
40/70	1,227	1,107	704	383	252	—	—
kRT™ — Resin coated sand for enhanced conductivity and proppant flowback control	(tested at 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	—	—
kRT Voyager™ — Resin coated sand for enhanced conductivity and proppant flowback control	(tested at 150°F)						
40/70	1,313	975	554	268	119	—	—
100	992	593	236	92	40	—	—
Curable Ceramics							
XRT™ Ceramax™ P — High strength resin coated bauxite for maximum conductivity under HP/HT conditions	(tested at 300°F)						
20/40	5,212	4,928	4,182	3,504	3,015	2,346	1,685
XRT Ceramax V — Intermediate strength resin coated ceramic for maximum conductivity under HP/HT conditions	(tested at 300°F)						
-14+40	6,515	5,661	4,688	4,238	3,303	2,506	1,631
XRT Ceramax E — Economic resin coated ceramic for maximum conductivity under HP/HT conditions	(tested at 300°F)						
20/40	5,257	4,776	4,141	3,556	2,362	1,494	—
Precured Sand							
PR6000™ — Precured resin coated sand	(tested at 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. using API Long-term Baseline Procedure at temperature and 2 lb/ft² proppant concentration.

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Resin Coated
Proppants



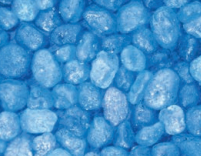

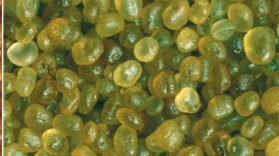







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Physical Properties

Resin Coated Proppants

	Water Management			Oil Production Enhancement				Premium Curable Sand				Low Temperature Curable Sand				Curable Sand					Mobile Production Unit Curable Sand		Curable Ceramics					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				Black Ultra Low Temperature Resin Coated Sand Ultra-low temperature resin coated sand for proppant flowback control without a consolidation aid				kRT Resin Coated Sand					kRT Voyager Resin Coated Sand		XRT Ceramax P Resin Coated Bauxite		XRT Ceramax V Resin Coated Intermediate Density Ceramic		XRT Ceramax E Resin Coated Lightweight Ceramic		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	16/30	20/40	30/50	40/70	16/30	20/40	30/50	40/70	100	40/70	100	20/40		-14+40	20/40	20/40		16/30	20/40	30/50	40/70	
Typical Closure Stress	10,000			8,000	10,000			10,000		12,000		8,000		10,000		8,000		10,000		12,000	12,000		> 14,000		14,000		12,000		8,000		10,000		
Typical Temperature Range	120–450			120–450				130–450		110–450		90–450				140–450		110–450			110–450		175–450		175–450		175–450		70–450				
Typical AcTivator™ Consolidation Aid Temperature Requirements* °F	N/A			< 120				< 130		< 110		< 90				< 140		< 110			N/A		N/A		N/A		N/A		N/A				
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	2.61	2.59	2.60	2.62	2.61	2.62	2.62	2.61	2.60	2.60	2.59	3.43		3.01	2.97	2.50		2.60	2.59	2.61	2.59
Pipe Fill Factor	gal/lb cm³/g	0.0749 0.625	0.0793 0.662	0.0821 0.685	0.0815 0.680	0.0821 0.685	0.0827 0.690	0.0827 0.690	0.0782 0.653	0.0813 0.680	0.0826 0.690	0.0826 0.690	0.0821 0.685	0.0784 0.654	0.0810 0.676	0.0816 0.681	0.0796 0.665	0.0768 0.641	0.0832 0.694	0.0855 0.714	0.0840 0.704	0.091 0.758	0.091 0.763	0.0625 0.521		0.0694 0.581	0.0692 0.578	0.0833 0.694		0.0748 0.624	0.0763 0.637	0.0758 0.633	0.0838 0.699
Specific Volume	gal/lb cm³/g	0.0469 0.391	0.0470 0.392	0.0463 0.386	0.0459 0.383	0.0469 0.391	0.0461 0.385	0.0463 0.386	0.0463 0.386	0.0455 0.380	0.0461 0.385	0.0463 0.386	0.0463 0.386	0.0439 0.383	0.0463 0.386	0.0461 0.385	0.0457 0.381	0.0459 0.383	0.0458 0.382	0.0458 0.382	0.0459 0.383	0.046 0.385	0.046 0.386	0.0350 0.292		0.0398 0.332	0.0403 0.336	0.0479 0.400		0.0460 0.384	0.0463 0.386	0.0459 0.383	0.0463 0.386
Bulk Density	lb/gal g/cm³	13.4 1.60	12.6 1.51	12.2 1.46	12.3 1.47	12.2 1.46	12.1 1.45	12.1 1.45	12.8 1.53	12.3 1.47	12.1 1.45	12.1 1.45	12.2 1.46	12.8 1.53	12.4 1.48	12.3 1.47	12.6 1.50	13.0 1.56	12.0 1.44	11.7 1.40	11.9 1.42	11.02 1.32	10.93 1.31	16.0 1.92		14.4 1.72	14.5 1.73	12.0 1.44		13.4 1.60	13.1 1.57	13.2 1.58	11.9 1.43
Acid Solubility	(weight %)	≤ 0.3			≤ 0.3				≤ 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.