

PropRaider[®] — High-Strength Sintered Bauxite Proppant

SUMMARY OF TYPICAL PROPERTIES

	16/30		20/40		30/50		40/70	
Typical Sieve Analysis sieve no. % retained	+16	0	-16+20	5	-20+30	1	-30+40	0
	-16+20	79	-20+30	94	-30+40	99	-40+50	91
	-20+30	21	-30+40	1	-40+50	0	-50+70	9
	-30	0	-40	0	-50	0	-70	0
Median Particle Diameter								
mm	0.903		0.749		0.522		0.354	
inches	0.036		0.029		0.021		0.014	
Specific Gravity (grams/cc)	3.5		3.5		3.5		3.5	
Acid Solubility (%)	5.0		5.0		5.0		5.0	
Sphericity Roundness (krumbein & sloss)	0.9/0.9		0.9/0.9		0.9/0.9		0.9/0.9	
Absolute Volume (gal/lb)	0.0345		0.0345		0.0345		0.0345	
Bulk Density								
grams/cc	2.04		2.04		2.04		2.04	
lb/ft ³	127.0		127.0		127.0		127.0	
Crush Resistance at Stress %								
10,000 psi	1.6		1.4		1.4		0.7	
12,500 psi	4.0		2.8		1.9		1.2	
15,000 psi	5.9		4.6		2.4		1.7	



16/30 PropRaider[®]



20/40 PropRaider[®]



30/50 PropRaider[®]



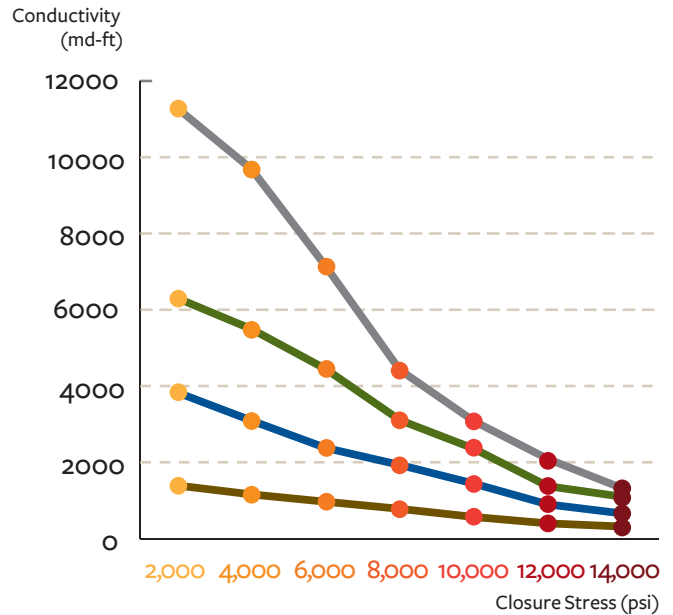
40/70 PropRaider[®]

† All tests follow ISO 13503-2:2006/API RP-19C procedures by Stim-Lab, Inc. and all values are typical.
 * Sizing Requirements: a minimum of 90% of tested sample should fall between the designated sieves.

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CONDUCTIVITY (md-ft)

	16/30	20/40	30/50	40/70
Closure Stress (psi)				
2,000	11282	6302	3829	1391
4,000	9687	5492	3092	1157
6,000	7145	4447	2377	966
8,000	4425	3107	1931	779
10,000	3080	2358	1441	566
12,000	2086	1373	896	398
14,000	1321	1097	659	315



PERMEABILITY (Darcies)

	16/30	20/40	30/50	40/70
Closure Stress (psi)				
2,000	787	442	269	99
4,000	696	399	225	84
6,000	523	332	175	72
8,000	336	242	146	59
10,000	246	195	115	44
12,000	184	124	77	34
14,000	126	107	62	29

- 16/30 PropRaider
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Note: Long-Term Conductivity and Permeability tested by Stim-Lab, Inc. using Proppant Consortium Baseline Procedure

STIM-LAB Test Conditions

2 lbs/ft², in 2% KCl between Ohio Sandstone at 250° F;
hold 50 hours at each 2000 psi

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