

PropLight[®] — Lightweight Ceramic Proppant

SUMMARY OF TYPICAL PROPERTIES[†]

	20/40		30/50		40/70	
Typical Sieve Analysis* sieve no. % retained	-16+20	1	-20+30	0.5	-30+40	1
	-20+30	95	-30+40	81	-40+50	74
	-30+40	4	-40+50	18	-50+70	25
	-40	0	-50	0.5	-70	0
Median Particle Diameter						
mm	0.701		0.465		0.334	
inches	0.028		0.018		0.013	
Specific Gravity (grams/cc)	2.8		2.8		2.8	
Acid Solubility (%)	6.0		6.0		6.0	
Sphericity Roundness (Krumbein & Sloss)	0.9		0.9		0.9	
Absolute Volume (gal/lb)	0.043		0.043		0.043	
Bulk Density						
grams/cc	1.50		1.50		1.50	
lb/ft ³	93.6		93.6		93.6	
Crush-Resistance (stresses tested & % fines)						
5,000 psi	0.6		-		-	
7,500 psi	3.0		1.5		1.3	
10,000 psi	7.5		2.5		2.7	



20/40 LWP



30/50 LWP



40/70 LWP

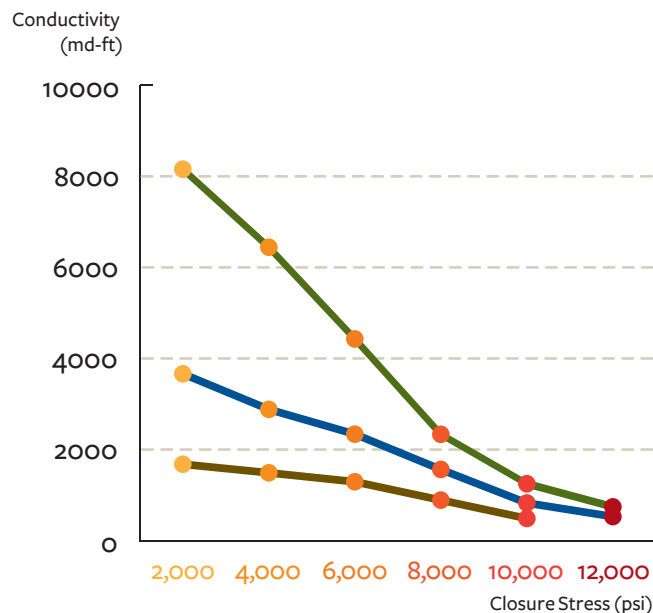
[†] All tests follow ISO 13503-2:2006/API RP-19C procedures by Stim-Lab, Inc. and all values are typical.

* Sizing Requirements: a minimum of 90% of tested sample should fall between the designated sieves.

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CONDUCTIVITY (md-ft)

	20/40	30/50	40/70
Closure Stress (psi)			
2,000	8157	3663	1677
4,000	6443	2882	1489
6,000	4429	2238	1292
8,000	2334	1562	889
10,000	1249	826	486
12,000	741	527	—



PERMEABILITY (Darcies)

	20/40	30/50	40/70
Closure Stress (psi)			
2,000	426	194	84
4,000	345	155	76
6,000	245	124	67
8,000	136	90	48
10,000	77	51	28
12,000	48	34	—

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

STIM-LAB Test Conditions

2 lbs/ft³, in 2% KCl between Ohio Sandstone at 250° F; hold 50 hours at each 2000 psi

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