

PropMaster[®] — Intermediate-Strength Proppant

SUMMARY OF TYPICAL PROPERTIES[†]

	16/30		20/40		30/50		40/70	
Typical Sieve Analysis* sieve no. % retained	+16	0	-16+20	0	-20+30	0	-30+40	2
	-16+20	74	-20+30	94	-30+40	60	-40+50	77
	-20+30	25	-30+40	6	-40+50	40	-50+70	21
	-30	1	-40	0	-50	0	-70	0
Median Particle Diameter								
mm	0.897		0.697		0.444		0.315	
inches	0.035		0.027		0.017		0.012	
Specific Gravity (grams/cc)	3.2		3.2		3.2		3.2	
Acid Solubility (%)	6.5		6.5		6.5		6.5	
Sphericity Roundness (Krumbein & Sloss)	0.9		0.9		0.9		0.9	
Absolute Volume (gal/lb)	0.037		0.037		0.037		0.037	
Bulk Density								
grams/cc	1.80		1.80		1.80		1.80	
lb/ft ³	112.3		112.3		112.3		112.3	
Crush-Resistance (stresses tested & % fines)								
7,500 psi	-		0.6		0.5		-	
10,000 psi	5.6		2.0		1.3		1.0	



16/30 ISP



20/40 ISP



30/50 ISP



40/70 ISP

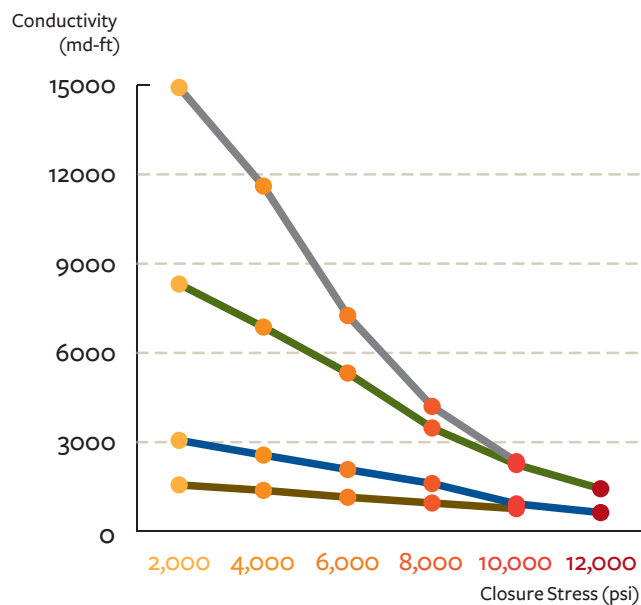
[†] All tests follow ISO 13503-2:2006/API RP-19C procedures by Stim-Lab, Inc. and all values are typical.

* 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	14920	8314	3061	1564
4,000	11607	6868	2566	1380
6,000	7256	5323	2080	1150
8,000	4202	3478	1611	956
10,000	2345	2250	926	765
12,000	-	1435	634	-



PERMEABILITY (Darcies)

	16/30	20/40	30/50	40/70
Closure Stress (psi)				
2,000	865	509	187	96
4,000	700	432	161	87
6,000	456	343	134	73
8,000	282	232	106	62
10,000	167	159	64	52
12,000	-	107	47	-

- 16/30 ISP
- 20/40 ISP
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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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