

ReaLite[®] — Ultra-Lightweight Ceramic Proppant

International Patent

SUMMARY OF TYPICAL PROPERTIES[†]

	30/50		40/70	
Typical Sieve Analysis*				
sieve no.				
% retained				
	-20+30	1	-30+40	2
	-30+40	60	-40+50	82
	-40+50	39	-50+70	16
	-50	0	-70	0
Median Particle Diameter				
mm	0.450		0.344	
inches	0.018		0.014	
Specific Gravity (grams/cc)	2.4		2.4	
Acid Solubility (%)	4.0		4.0	
Sphericity Roundness (Krumbein & Sloss)	0.9		0.9	
Absolute Volume (gal/lb)	0.050		0.050	
Bulk Density				
grams/cc	1.30		1.30	
lb/ft ³	81.2		81.2	
Crush-Resistance (stresses tested & % fines)				
7,500 psi	7.1		2.7	
10,000 psi	12.0		6.7	



30/50 ULWP



40/70 ULWP

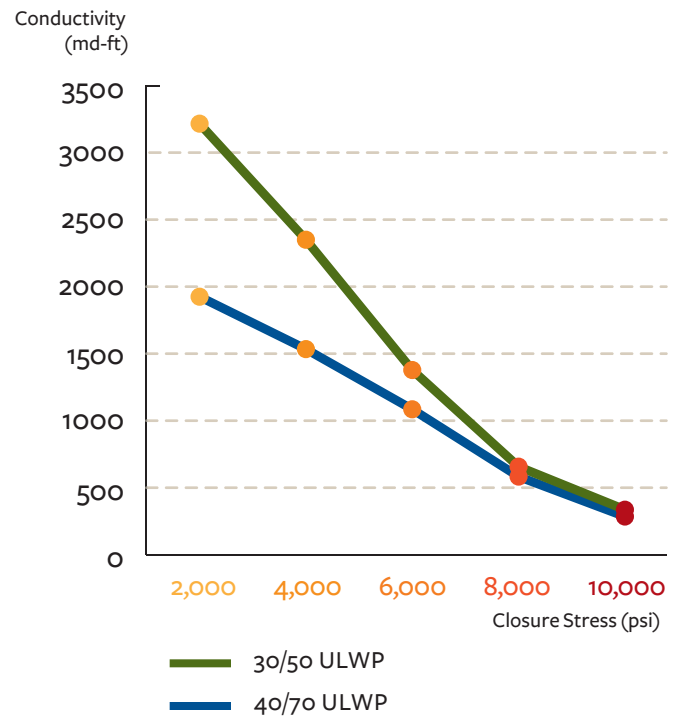
[†] All tests follow ISO 13503-2:2006/API RP-19C procedures by Stim-Lab, Inc. and all values are typical.

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

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CONDUCTIVITY (md-ft)

Closure Stress (psi)	30/50	40/70
2,000	3216	1925
4,000	2350	1534
6,000	1378	1085
8,000	657	583
10,000	336	285



PERMEABILITY (Darcies)

Closure Stress (psi)	30/50	40/70
2,000	151	91
4,000	113	74
6,000	69	54
8,000	35	30
10,000	19	16

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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