

## TECHNICAL DATA SHEET

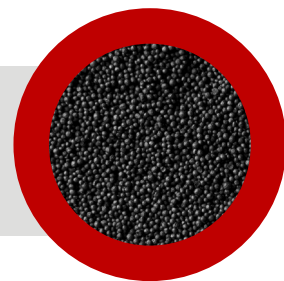
### PROPPANTS TECHNICAL DATA



Properties	Sieves	LWP		
		10/20	16/30	20/40
		% Retained		
Sieve Analysis	# 8	1		
	# 10	1		
	# 12	47		
	# 14	40		
	# 16	7	4	
	# 18		24	
	# 20	4	34	5
	# 25		28	21
	# 30		10	33
	# 35			34
	# 40			6
	# 50			1
Fines		0	0	0
Mean Diameter	mm	1.183	0.919	0.650
Sphericity & Roundness	-	0.9 x 0.9		
Bulk Density	g/cm <sup>3</sup>	1.55	1.53	1.57
	lb/ft <sup>3</sup>	97	96	98
Apparent Density	g/cm <sup>3</sup>	2.79	2.75	2.78
Absolute Density	g/cm <sup>3</sup>	3.03	2.82	2.94
Turbidity	FTU	35.7	53.1	41.4
Acid Solubility	(HCl+HF)%	6.1		
Crush Resistance Stress psi, % fines	3,000	3.6	2.0	
	4,000	12.8	6.2	
	5,000	15.6	9.7	3.9
Chemical Composition, %	Al <sub>2</sub> O <sub>3</sub>		60.2	
	SiO <sub>2</sub>		25.0	
	Fe <sub>2</sub> O <sub>3</sub>		11.0	
	TiO <sub>2</sub>		1.2	
	Other		2.6	

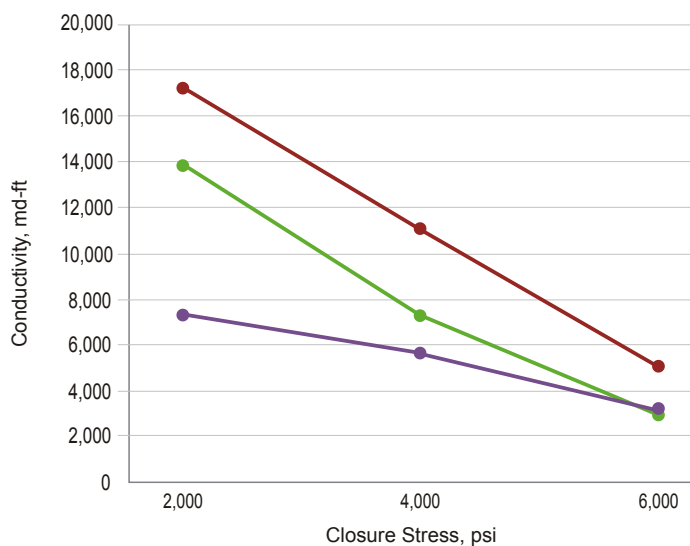
Typical data measured in accordance with ISO 13503-2 and 13503-5





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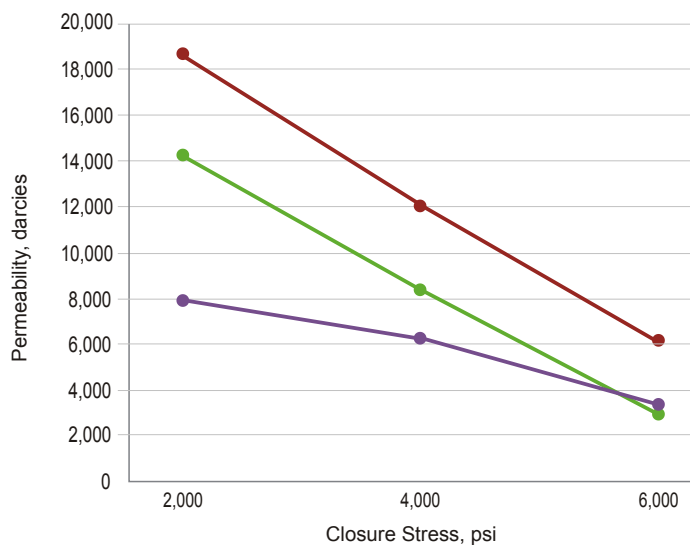
### PROPPANTS TECHNICAL DATA



#### SinterPropLite - Conductivity

md-ft - 2% KCl - 2lb/ft<sup>2</sup> @300° F

	2,000	4,000	6,000
# 10/20	17,436	10,622	4,928
# 16/30	13,753	7,488	2,971
# 20/40	7,343	5,644	3,173



#### SinterPropLite - Permeability

darcies - 2% KCl - 2lb/ft<sup>2</sup> @300° F

	2,000	4,000	6,000
# 10/20	914	598	294
# 16/30	705	410	177
# 20/40	392	312	185

