

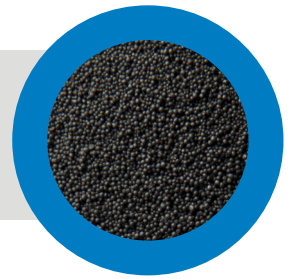
# TECHNICAL DATA SHEET

## PROPPANTS TECHNICAL DATA



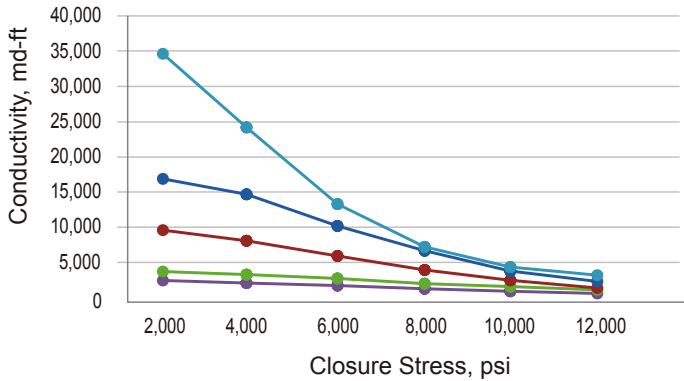
Properties	Sieves	ISP				
		12/18	16/30	20/40	30/60	40/80
		% Retained				
Sieve Analysis	# 12	4				
	# 14	47				
	# 16	46	2			
	# 18	3	23			
	# 20		57	4		
	# 25		15	38		
	# 30		3	44	5	
	# 35			14		
	# 40				52	4
	# 50				36	56
	# 60				4	22
	# 70				2	13
	# 80					5
	# 100				1	
	Fines		0	0	0	0
Mean Diameter	mm	1.430	0.943	0.702	0.450	0.324
Sphericity & Roundness	-			0.9 x 0.9		
Bulk Density	g/cm <sup>3</sup>			1.82		
	lb/ft <sup>3</sup>			114		
Apparent Density	g/cm <sup>3</sup>			3.33		
Absolute Density	g/cm <sup>3</sup>			3.47		
Turbidity	FTU			62		
Acid Solubility	%			5.9		
Crush Resistance Stress psi, % fines	7,500	15.3	4.1	1.6	2.0	1.0
	10,000		8.8	4.0	4.2	2.5
	12,500			7.6	8.6	4.8
Chemical Composition, %	Al <sub>2</sub> O <sub>3</sub>			71.0		
	Fe <sub>2</sub> O <sub>3</sub>			13.0		
	SiO <sub>2</sub>			12.5		
	TiO <sub>2</sub>			1.8		
	Other			1.7		

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



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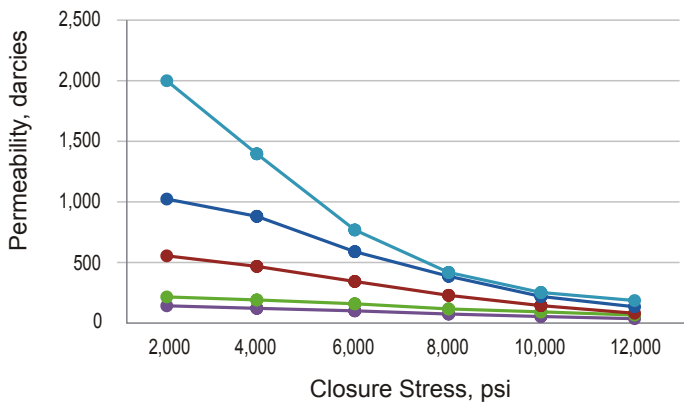
## PROPPANTS TECHNICAL DATA



### SinterLite Bauxite - Conductivity

md-ft - 2% KCl - 2lb/ft<sup>2</sup> @250° F

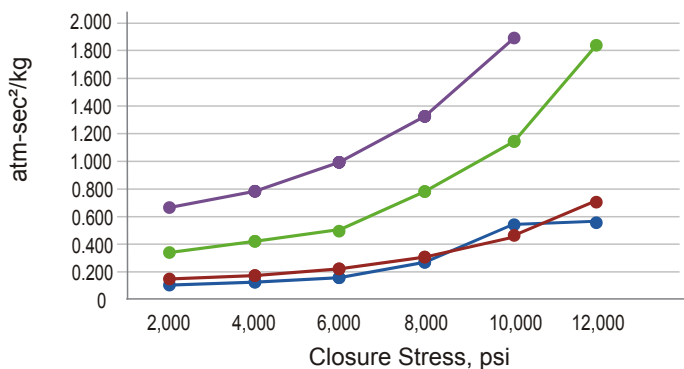
	2,000	4,000	6,000	8,000	10,000	12,000
12/18	34,018	23,124	12,888	6,941	3,994	2,847
16/30	16,509	14,124	9,834	6,439	3,488	2,033
20/40	9,249	7,526	5,515	3,643	2,061	1,100
30/60	3,308	2,759	2,299	1,753	1,252	773
40/80	2,044	1,644	1,274	904	576	343



### SinterLite Bauxite - Permeability

darcies - 2% KCl - 2lb/ft<sup>2</sup> @250° F

	2,000	4,000	6,000	8,000	10,000	12,000
12/18	2,013	1,447	847	474	283	209
16/30	1,012	893	643	436	244	147
20/40	563	472	355	243	142	78.0
30/60	205	175	150	117	85.8	54.2
40/80	124	102	80.7	58.5	38.1	23.2



### SinterLite Bauxite - Beta Factor

atm-sec<sup>2</sup>/kg - 2lb/ft<sup>2</sup> @250° F

	2,000	4,000	6,000	8,000	10,000	12,000
16/30	0.093	0.113	0.144	0.259	0.550	0.575
20/40	0.136	0.161	0.213	0.301	0.473	0.713
30/60	0.330	0.410	0.520	0.780	1.130	1.850
40/80	0.660	0.781	0.994	1.337	1.892	-