

BauxLite®/VersaLite® Lightweight Proppants

Summary of Typical Properties

Properties	Typical Sieve Analysis					ISO Mean Particle Diameter	Median Particle Diameter	Roundness/Sphericity	Bulk Density		Specific Gravity	Absolute Volume	Acid Solubility	Crush Resistance @ Stress %		
									grams/cc	lb/ft ³				6,000 (psi)	8,000 (psi)	10,000 (psi)
Units/Method						mm	mm	Krumbein & Sloss			-	gal/lb	%			
12/18 BauxLite® Plus	Sieve No	12	14	18	<18	1.38	1.35	0.9	1.6	100	2.85	0.042	6.5	7.0	16.0	20.0
	% Retained	5	38	57	TR											
16/20 BauxLite® Plus	Sieve No	16	18	20	<20	1.00	0.97	0.9	1.6	100	2.85	0.042	6.5	4.0	9.0	16.0
	% Retained	5	55	40	TR											
16/30 BauxLite®	Sieve No	16	20	30	<30	0.98	0.95	0.9	1.6	100	2.85	0.042	6.5	2.0	6.0	12.0
	% Retained	4	84	12	TR											
VersaLite®	Sieve No	18	25	40	<40	0.76	0.74	0.9	1.6	100	2.85	0.042	6.5	1.5	3.0	6.0
	% Retained	8	56	36	TR											
20/40 BauxLite® Plus	Sieve No	20	30	40	<40	0.73	0.71	0.9	1.6	100	2.85	0.042	6.5	1.5	3.0	6.0
	% Retained	8	82	10	TR											
20/40 BauxLite®	Sieve No	20	30	40	<40	0.67	0.65	0.9	1.6	100	2.85	0.042	6.5	1.0	3.0	5.0
	% Retained	5	60	35	TR											
30/50 BauxLite®	Sieve No	30	40	50	<50	0.48	0.47	0.9	1.6	100	2.85	0.042	6.5	1.0	3.0	5.0
	% Retained	5	75	20	TR											
40/80 BauxLite®	Sieve No	40	70	80	<80	0.34	0.33	0.9	1.6	100	2.85	0.042	6.5	1.0	2.0	4.0
	% Retained	4	90	6	TR											

TR=Trace

Typical Property Summaries are derived from ISO test procedures and multiple Stim-Lab tests.

SGP-0002-SS-1014-SGCS

October 2014



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Summary of Conductivities and Permeabilities

	Conductivity (md-ft)						Permeability (Darcies)					
	Closure Stress (psi)						Closure Stress (psi)					
	2,000	4,000	6,000	8,000	10,000	12,000	2,000	4,000	6,000	8,000	10,000	12,000
12/18 BauxLite® Plus	33,555	27,145	13,350	7,435	4,395	2,975	1,730	1,465	755	450	285	200
16/20 BauxLite® Plus	18,725	15,165	10,390	6,495	4,260	2,815	995	830	585	390	265	190
16/30 BauxLite®	16,185	13,360	9,555	6,070	4,140	3,005	865	730	540	360	255	195
VersaLite®	9,735	7,435	5,190	3,445	2,155	1,365	530	420	300	205	135	90
20/40 BauxLite® Plus	8,490	6,710	4,925	3,340	2,270	1,410	460	375	280	200	140	90
20/40 BauxLite®	6,515	5,285	3,955	2,670	1,750	1,165	360	300	230	160	105	75
30/50 BauxLite®	3,045	2,435	1,890	1,420	995	695	170	140	110	85	60	45
40/80 BauxLite®	1,500	1,300	1,060	845	700	525	85	75	60	50	40	30

Conductivities and permeabilities are averages of multiple Stim-Lab baseline tests.

STIM-LAB Test Conditions

Cell Type	10 in ² API Modified with Ohio Sandstone Cores
Fluid	2% KCl, SiO ₂ saturated, O ₂ 5 ppb, pH 6.5
Test Duration	Hold 50 hours at each 2000 psi
Temperature	250°F
Proppant Concentration	2 lbs/ft ²



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