

# UltraProp® / Sintered Bauxite

## High Strength 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 <sup>3</sup>				7,500 (psi)	10,000 (psi)	12,500 (psi)	15,000 (psi)
Units/Method						mm	mm	Krumbein & Sloss			-	gal/lb	%				
UltraProp® Sintered Bauxite	Sieve No	18	25	40	<40	0.76	0.74	0.9	2.04	127	3.5	0.0347	1.9	0.6	1.5	3.0	6.0
	% Retained	8	56	36	TR												
16/30 Sintered Bauxite	Sieve No	16	20	30	<30	0.98	0.95	0.9	2.04	127	3.5	0.0347	1.9	1.0	2.5	4.5	9.0
	% Retained	4	84	12	TR												
20/40 Sintered Bauxite	Sieve No	20	30	40	<40	0.73	0.71	0.9	2.04	127	3.5	0.0347	1.9	0.5	1.2	2.2	4.0
	% Retained	8	82	10	TR												
30/50 Sintered Bauxite	Sieve No	30	40	50	<50	0.48	0.47	0.9	2.04	127	3.5	0.0347	1.9	0.2	0.6	1.0	1.5
	% Retained	5	75	20	TR												
40/80 Sintered Bauxite	Sieve No	40	70	80	<80	0.34	0.33	0.9	2.04	127	3.5	0.0347	1.9	0.2	0.5	0.9	2.1
	% Retained	4	90	6	TR												

TR=Trace

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

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## High Strength Proppants

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	14,000	2,000	4,000	6,000	8,000	10,000	12,000	14,000
<b>UltraProp® Sintered Bauxite</b>	8,535	6,640	5,649	4,552	3,469	2,348	1,727	585	469	406	331	260	185	146
<b>16/30 Sintered Bauxite</b>	16,375	12,210	9,505	7,155	4,875	3,515	2,470	1,098	833	663	511	361	265	195
<b>20/40 Sintered Bauxite</b>	7,065	5,980	5,030	4,140	2,800	2,030	1,595	424	334	299	240	178	132	130
<b>30/50 Sintered Bauxite</b>	2,710	2,220	1,875	1,430	1,100	845	615	185	150	130	100	80	65	50
<b>40/80 Sintered Bauxite*</b>	1,324	1,118	947	792	642	501	379	88	77	67	58	48	40	32

Tested by Stim-Lab Inc., Using Proppant Consortium Long Term Testing Procedures.

\* Tested at 250°F

### STIM-LAB Test Conditions

Cell Type	10 in <sup>2</sup> API Modified with Ohio Sandstone Cores
Fluid	2% KCl, SiO <sub>2</sub> saturated, O <sub>2</sub> 5 ppb, pH 6.5
Test Duration	Hold 50 hours at each 2000 psi
Temperature	300°F
Proppant Concentration	2 lbs/ft <sup>2</sup>



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call 800.643.2149

### Inventory Locations

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Alberta	Grand Prairie
	Peers
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Sichuan Province	Guanghan City
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