

Figure 1: Proppant Test Data - 30/50 AZ

(Color Code is based on Variance from Sample Received Data)

Quick Chek ✓		API RP-19C	30/50 AZ Public Data	30/50 AZ	
Turbidity (NTU)		≤ 250	88	18	
Krumbein Shape Factors					
Roundness		≥ 0.6	0.7	0.6	
Sphericity		≥ 0.6	0.8	0.8	
Clusters (%)		≤ 1.0	0	0	
Bulk Density (g/cc)			1.48	1.49	
Bulk Density (lb/ft ³)			92.71	92.97	
Specific Gravity (Apparent Density)			2.56	2.63	
Particle Size Distribution, mm		Mesh size			
	0.850	20	≤ 0.1	0.0	
	0.600	30		3.7	
	0.500	35		22.3	
	0.425	40		42.7	
	0.355	45		27.1	
	0.300	50		3.3	
	0.212	70		0.6	
	<0.212	Pan	≤ 1.0	0.3	
	Total			100	100.0
	% In Size		≥ 90	95.40	94.9
Mean Particle Diameter, mm			0.464	0.489	
Median Particle Diameter (MPD), mm				0.483	
Solubility in 12/3 HCl/HF for 0.5 HR @ 150°F (% Weight Loss)		≤ 2.0		5.0	
Solubility in 15% HCl for 0.5 HR @ 150°F (% Weight Loss)		≤ 2.0		0.3	
Settling Rate (ft/min)				41.15	
Crush Chek ✓					
API Crush Analysis (% Fines) 4lb/ft ² @ 8,000 psi		≤ 10	8K	9.4	
API Crush Analysis (% Fines) 4lb/ft ² @ 9,000 psi		≤ 10		11.8	

Meets API RP-19C standards

Fails API RP-19C standards