

Figure 1: Proppant Test Data - 30/50 CM-3500

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

Quick Chek ✓		ISO 13503-2	30/60 ISP Public Domain	30/50 CM-3500
Turbidity (NTU)		≤ 250	< 250	35
Krumbein Shape Factors				
Roundness		≥ 0.7	0.90	0.9
Sphericity		≥ 0.7	0.90	0.9
Clusters (%)		≤ 1.0	0	0
Bulk Density (g/cc)			1.88	1.72
Bulk Density (lb/ft ³)			117.00	107.32
Specific Gravity			3.27	3.08
Particle Size Distribution, mm		Mesh size		
	0.850	20	≤ 0.1	0.0
	0.710	25		1.0
	0.600	30		0.1
	0.500	35		71.7
	0.425	40		25.6
	0.355	45		94.0
	0.300	50		4.0
	0.212	70		1.0
	<0.212	Pan	≤ 1.0	0.0
	Total			100
% In Size		≥ 90	98.00	99.9
Mean Particle Diameter, mm				0.523
Median Particle Diameter (MPD), mm			0.443	0.519
Solubility in 12/3 HCL/HF for 0.5 HR @ 150°F (% Weight Loss)		≤ 7.0	4.50	5.0
Settling Rate (ft/min)				61.03
Crush Chek ✓				
ISO Crush Analysis (% Fines) 4lb/ft ² @ 15,000 psi		≤ 10		9.7
API Crush Analysis (% Fines) 4lb/ft ² @ 10,000 psi			2.2	1.7
API Crush Analysis (% Fines) 4lb/ft ² @ 12,500 psi			5.1	2.4

Meets ISO 13503-2/API 19C
standards

Fails ISO 13503-2/API 19C
standards

Figure 2: Particle Distribution Graph 30/50 CM-3500

Median : 0.519 mm Mean : 0.523 mm

Mesh Size (mm)	Sieve #	30/60 ISP Public Domain	30/50 CM-3500
0.850	20		0.0
0.710	25	1.0	0.0
0.600	30		0.1
0.500	35		71.7
0.425	40		25.6
0.355	45	94.0	2.7
0.300	50	4.0	0.0
0.212	70	1.0	0.0
<0.212	Pan	0.0	0.0

