

Figure 1: Proppant Test Data - 20/40 CM-2400

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

Quick Chek ✓		<i>ISO</i> 13503-2	20/40 ISP Public Domain	20/40 CM-2400	
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	1.77	
Bulk Density (lb/ft ³)			117.00	110.91	
Specific Gravity			3.27	3.15	
Particle Size Distribution, mm		Sieve			
	1.180	16	≤ 0.1	0.0	
	1.000	18		0.0	
	0.850	20		3.0	
	0.710	25		6.6	
	0.600	30		65.0	
	0.500	35		70.0	
	0.425	40		22.6	
	0.300	50		0.6	
	<0.300	Pan	≤ 1.0	0.0	
	Total			100	100.0
	% In Size		≥ 90	97.00	99.9
Mean Particle Diameter, mm				0.638	
Median Particle Diameter (MPD), mm			0.658	0.633	
Solubility in 12/3 HCL/HF for 0.5 HR @ 150°F (% Weight Loss)		≤ 7.0	4.5	4.6	
Settling Rate (ft/min)				94.00	
Crush Chek ✓					
ISO Crush Analysis (% Fines) 4lb/ft ² @ 15,000 psi		≤ 10		8.0	
API Crush Analysis (% Fines) 4lb/ft ² @ 10,000 psi			2.2	3.0	
API Crush Analysis (% Fines) 4lb/ft ² @ 12,500 psi			5.1	4.8	

Meets ISO 13503-2/API 19C standards

Fails ISO 13503-2/API 19C standards

Figure 2: Particle Distribution Graph
20/40 CM-2400

Median : 0.633 mm Mean : 0.638 mm

Mesh Size (mm)	Sieve #	20/40 ISP Public Domain	20/40 CM-2400
1.180	16		0.0
1.000	18		0.0
0.850	20	3.0	0.1
0.710	25		6.6
0.600	30	65.0	70.0
0.500	35		22.6
0.425	40	32.0	0.6
0.300	50		0.0
<0.300	Pan	0.0	0.0

