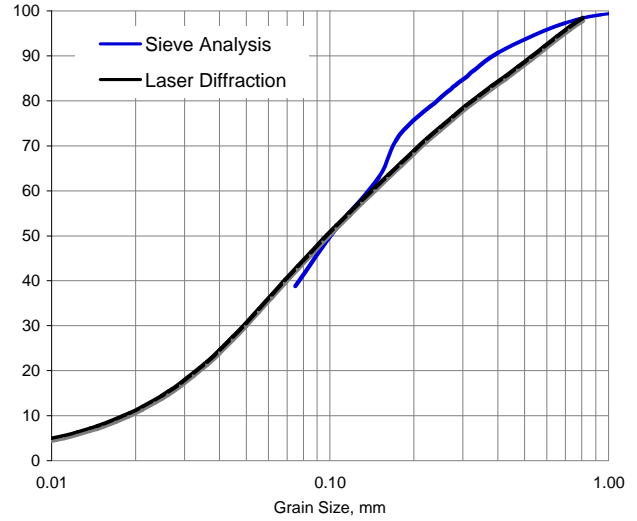


Product Data, Lunar Simulant JSC-1a Ton 1

Grain size distribution using sieve analysis (ref. ASTM D-422)

US Std Sieve Size		Typical Vaues
Number	Opening, mm	Percent Passing, Cumulative
10	2.00	100.0
20	0.850	98.7
40	0.425	91.6
50	0.300	84.7
60	0.246	80.3
80	0.177	72.3
100	0.150	63.0
140	0.106	51.8
200	0.075	38.8



Grain size distribution using Coulter LS series laser diffraction particle size analyzer

Size, mm	Percent Finer, %
0.80850	99.95
0.72630	97.92
0.65250	95.73
0.58620	93.45
0.52660	91.13
0.47300	88.91
0.42500	86.76
0.38180	84.62
0.34290	82.41
0.30810	80.12
0.27680	77.74
0.24860	75.26
0.22340	72.68
0.20060	70.01
0.18030	67.27
0.16190	64.48
0.14550	61.67
0.13070	58.84
0.11740	55.98
0.10550	53.07
0.09474	50.10
0.08511	47.05
0.07646	43.91
0.06868	40.70

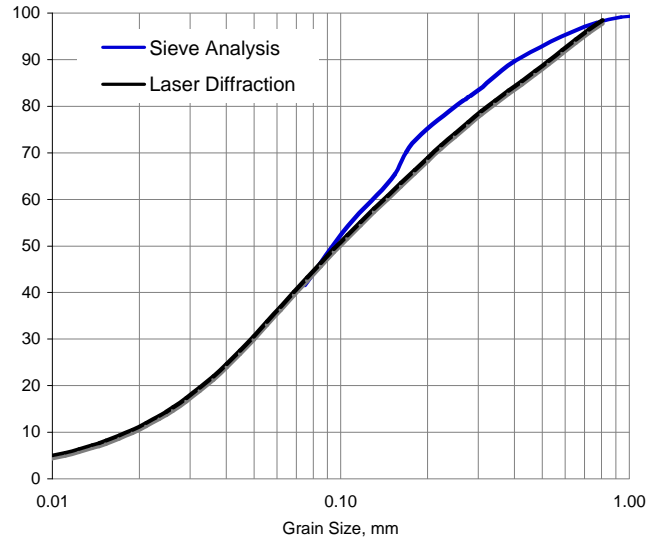
Size, mm	Percent Finer, %
0.06170	37.45
0.05543	34.21
0.04979	31.03
0.04473	27.96
0.04018	25.06
0.03610	22.36
0.03243	19.88
0.02913	17.63
0.02617	15.60
0.02351	13.78
0.02112	12.16
0.01897	10.72
0.01705	9.44
0.01531	8.31
0.01376	7.32
0.01236	6.45
0.01110	5.70
0.00997	5.06
0.00896	4.52
0.00805	4.06
0.00723	3.68
0.00650	3.37
0.00584	3.11
0.00524	2.89

Size, mm	Percent Finer, %
0.00471	2.70
0.00423	2.54
0.00380	2.40
0.00341	2.28
0.00307	2.17
0.00276	2.07
0.00248	1.97
0.00222	1.87
0.00200	1.77
0.00179	1.66
0.00161	1.55
0.00145	1.43
0.00130	1.30
0.00117	1.16
0.00105	1.02
0.00094	0.88
0.00085	0.74
0.00076	0.61
0.00068	0.48
0.00061	0.37
0.00055	0.27
0.00050	0.19
0.00045	0.12
0.00040	0.06

Product Data, Lunar Simulant JSC-1a Ton 2

Grain size distribution using sieve analysis (ref. ASTM D-422)

US Std Sieve Size		Typical Vaues
Number	Opening, mm	Percent Passing, Cumulative
10	2.00	100.0
20	0.850	98.6
40	0.425	90.6
50	0.300	83.5
60	0.246	79.7
80	0.177	72.0
100	0.150	64.4
140	0.106	54.2
200	0.075	41.6



Grain size distribution using Coulter LS series laser diffraction particle size analyzer

Size, mm	Percent Finer, %
0.80850	99.95
0.72630	97.92
0.65250	95.73
0.58620	93.45
0.52660	91.13
0.47300	88.91
0.42500	86.76
0.38180	84.62
0.34290	82.41
0.30810	80.12
0.27680	77.74
0.24860	75.26
0.22340	72.68
0.20060	70.01
0.18030	67.27
0.16190	64.48
0.14550	61.67
0.13070	58.84
0.11740	55.98
0.10550	53.07
0.09474	50.10
0.08511	47.05
0.07646	43.91
0.06868	40.70

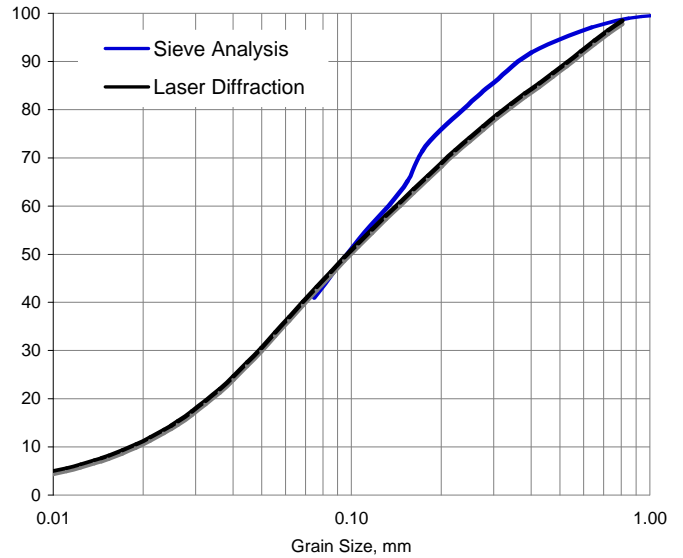
Size, mm	Percent Finer, %
0.06170	37.45
0.05543	34.21
0.04979	31.03
0.04473	27.96
0.04018	25.06
0.03610	22.36
0.03243	19.88
0.02913	17.63
0.02617	15.60
0.02351	13.78
0.02112	12.16
0.01897	10.72
0.01705	9.44
0.01531	8.31
0.01376	7.32
0.01236	6.45
0.01110	5.70
0.00997	5.06
0.00896	4.52
0.00805	4.06
0.00723	3.68
0.00650	3.37
0.00584	3.11
0.00524	2.89

Size, mm	Percent Finer, %
0.00471	2.70
0.00423	2.54
0.00380	2.40
0.00341	2.28
0.00307	2.17
0.00276	2.07
0.00248	1.97
0.00222	1.87
0.00200	1.77
0.00179	1.66
0.00161	1.55
0.00145	1.43
0.00130	1.30
0.00117	1.16
0.00105	1.02
0.00094	0.88
0.00085	0.74
0.00076	0.61
0.00068	0.48
0.00061	0.37
0.00055	0.27
0.00050	0.19
0.00045	0.12
0.00040	0.06

Product Data, Lunar Simulant JSC-1a Ton 3

Grain size distribution using sieve analysis (ref. ASTM D-422)

US Std Sieve Size		Typical Vaues
Number	Opening, mm	Percent Passing, Cumulative
10	2.00	100.0
20	0.850	98.9
40	0.425	92.6
50	0.300	85.6
60	0.246	81.0
80	0.177	72.4
100	0.150	64.0
140	0.106	53.1
200	0.075	41.0



Grain size distribution using Coulter LS series laser diffraction particle size analyzer

Size, mm	Percent Finer, %
0.80850	99.95
0.72630	97.92
0.65250	95.73
0.58620	93.45
0.52660	91.13
0.47300	88.91
0.42500	86.76
0.38180	84.62
0.34290	82.41
0.30810	80.12
0.27680	77.74
0.24860	75.26
0.22340	72.68
0.20060	70.01
0.18030	67.27
0.16190	64.48
0.14550	61.67
0.13070	58.84
0.11740	55.98
0.10550	53.07
0.09474	50.10
0.08511	47.05
0.07646	43.91
0.06868	40.70

Size, mm	Percent Finer, %
0.06170	37.45
0.05543	34.21
0.04979	31.03
0.04473	27.96
0.04018	25.06
0.03610	22.36
0.03243	19.88
0.02913	17.63
0.02617	15.60
0.02351	13.78
0.02112	12.16
0.01897	10.72
0.01705	9.44
0.01531	8.31
0.01376	7.32
0.01236	6.45
0.01110	5.70
0.00997	5.06
0.00896	4.52
0.00805	4.06
0.00723	3.68
0.00650	3.37
0.00584	3.11
0.00524	2.89

Size, mm	Percent Finer, %
0.00471	2.70
0.00423	2.54
0.00380	2.40
0.00341	2.28
0.00307	2.17
0.00276	2.07
0.00248	1.97
0.00222	1.87
0.00200	1.77
0.00179	1.66
0.00161	1.55
0.00145	1.43
0.00130	1.30
0.00117	1.16
0.00105	1.02
0.00094	0.88
0.00085	0.74
0.00076	0.61
0.00068	0.48
0.00061	0.37
0.00055	0.27
0.00050	0.19
0.00045	0.12
0.00040	0.06