

DERRICK CORPORATION

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Wet Sizing Chart

<i>Product</i>	<u>Zircon Sands (Heavy)</u>			<i>Test No.</i>	_____	<i>Date</i>	_____
<i>Dry Solids sp gr</i>	<u>3.00</u>	<i>Size range</i>	<u>20mesh x 0</u>	<i>File No.</i>	_____		
<i>Pulp %Solids (wt)</i>	<u>39.20</u>	<i>Unit Angle</i>	<u>17.5</u>	<i>For</i>	CUSTOMER NAME		
<i>Pulp %Solids (vol)</i>	<u>17.69</u>	<i>Pulp Temp (F)</i>	<u>amb</u>		ADDRESS 1		
<i>Pulp sp gr</i>	<u>1.354</u>	<i>Pulp pH</i>	<u>Neutral</u>		ADDRESS 2		
<i>Pulp gpm/stph</i>	<u>7.575</u>	<i>Spray (USGPM)</i>	<u>40.0</u>		CITY, STATE ZIP		
<i>Screening machine</i>	<u>SG48-60W-3STK</u>			<i>Contact</i>	_____		
<i>Screen panel</i>	<u>TH48-30x0.30mm</u>			<i>Phone</i>	_____	<i>Fax:</i>	_____
<i>Test flow (gpm)</i>	<u>570</u>	<i>O'size %Solids</i>	<u>67.5</u>	<i>Specification</i>	_____		
<i>Effective width (in)</i>	<u>120</u>	<i>Un'size %Solids</i>	<u>28.8</u>		_____		
<i>Objective</i>	<u>Determine performance at 40 % solids w/ spray</u>						

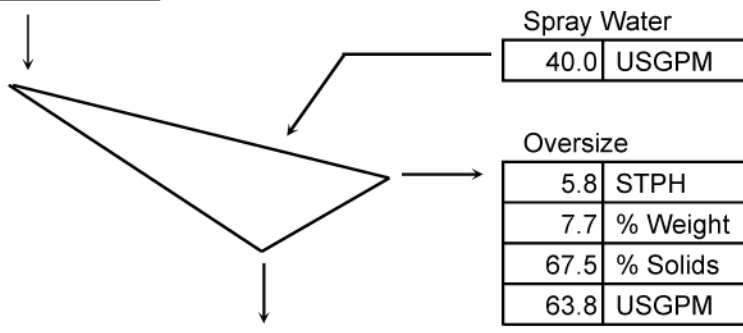
Comments Simulate three deck with 0.30mm urethane screen panel

Opening				Cummulative Percent Retained			Weight Recovery		Efficiency		Overall
Microns	Inches	Tyler	U.S. No.	Feed	O'size	Un'size	O'size	Un'size	O'size	Un'size	
13200	0.530	0.525	0.530								
11200	0.438	0.441	7/16								
9500	0.375	0.371	3/8								
8000	0.312	2 1/2	5/16								
6700	0.265	3	0.265								
5600	0.223	3 1/2	3 1/2								
4750	0.187	4	4								
4000	0.157	5	5								
3350	0.132	6	6								
2800	0.111	7	7								
2360	0.0937	8	8								
2000	0.0787	9	10								
1700	0.0661	10	12								
1400	0.0555	12	14								
1180	0.0469	14	16								
1000	0.0394	16	18								
850	0.0331	20	20	0.32	3.70						
710	0.0278	24	25								
600	0.0234	28	30	0.38	4.81						
500	0.0197	32	35	0.64	7.80						
425	0.0165	35	40	1.28	15.01	0.00					
355	0.0139	42	45	3.45	38.14	0.48	7.89	92.11	87.18	94.95	94.68
300	0.0117	48	50	8.77	71.73	3.50	7.72	92.28	63.17	97.61	94.59
250	0.0098	60	60	19.07	89.60	12.56	8.45	91.55	39.70	98.91	87.62
212	0.0083	65	70	32.31	95.13	27.29	7.40	92.60	21.79	99.47	74.37
180	0.0070	80	80	61.16	98.18	54.35	15.54	84.46	24.94	99.27	53.81
150	0.0059	100	100	82.66	99.29	76.69	26.42	73.58	31.73	98.92	43.38
125	0.0049	115	120	92.90	99.68	91.30	19.09	80.91	20.49	99.14	26.07
106	0.0041	150	140	96.80	99.87	96.38	12.03	87.97	12.42	99.51	15.20
90	0.0035	170	170			98.67					
75	0.0029	200	200	99.62		99.58					
63	0.0025	250	230								
53	0.0021	270	270								
45	0.0017	325	325								
38	0.0015	400	400								
							7.72	92.28			

FLOW DIAGRAM

Feed	
75.2	STPH
100.0	% Weight
39.2	% Solids
570.0	USGPM

Test No. _____ Date _____
 Company: CUSTOMER NAME
 Machine: SG48-60W-3STK
 Panel: TH48-30x0.30mm



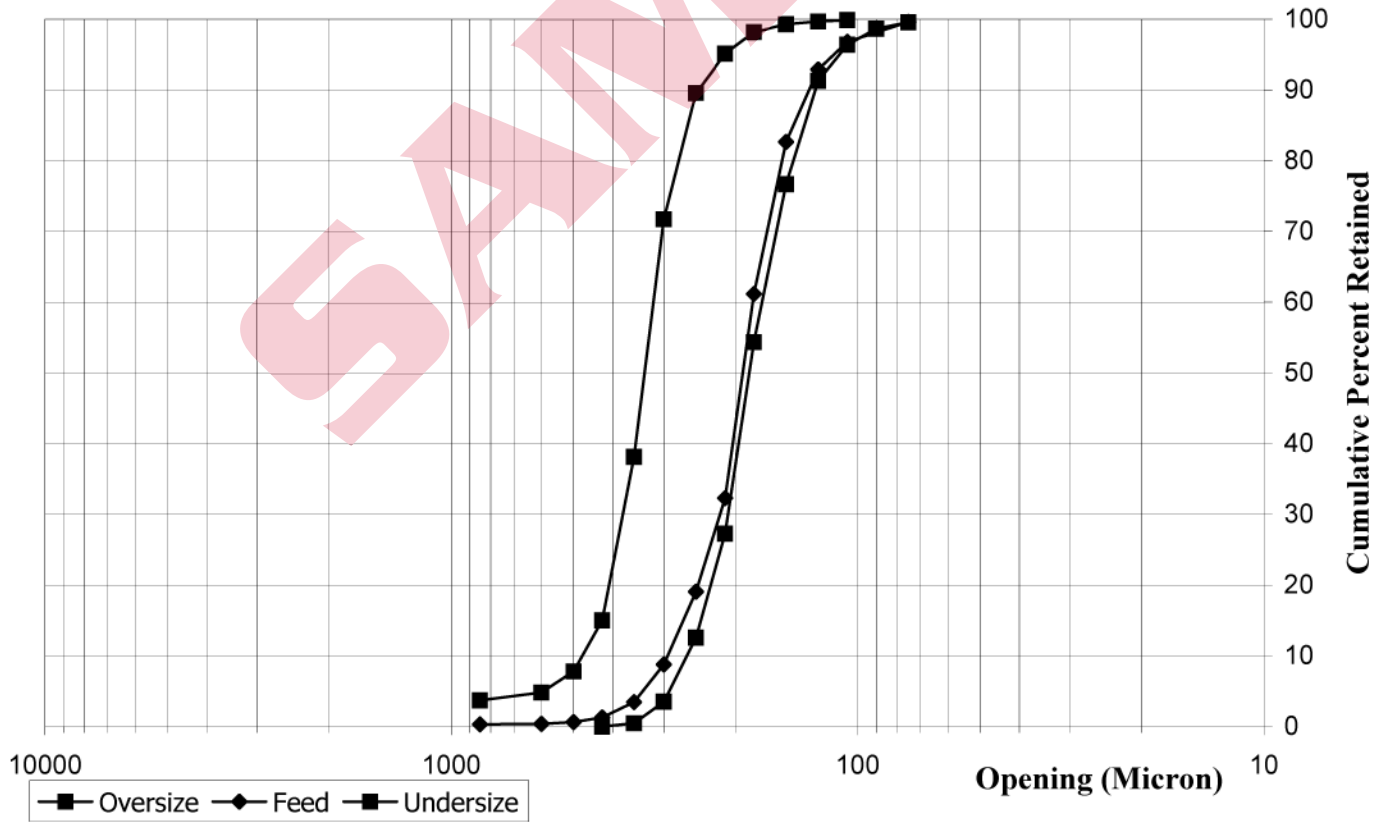
Spray Water	
40.0	USGPM

Oversize	
5.8	STPH
7.7	% Weight
67.5	% Solids
63.8	USGPM

Undersize	
69.4	STPH
92.3	% Weight
28.8	% Solids
783.1	USGPM

Sizing Data	
Feed STPH / inch	0.627
Oversize STPH / inch	0.048
Feed USGPM / inch	4.75

PARTICLE SIZE DISTRIBUTION



CUSTOMER NAME
SILICA SAND WET SCREENING TEST DATA....
Derrick Model F48-120R-4M

TEST #	1
SCREENING UNIT	F48-120R-4M
RPM	3000
MACHINE ANGLE (DEGREE)	20
SCREEN PANEL	TH0.43MT
OPENING (mm)	0.430
FEED (M3/HR)	56.8
FEED (Mtph)	22.8
SPRAY WATER (M3/HR)	17.00
O'SIZE % Wt.	5.66
U'SIZE % Wt.	94.34
FEED % S by.Wt.	32.30
U'SIZE % S by.Wt.	25.28
O'SIZE % S by.Wt.	51.30
+0.50 mm % IN FEED	5.37
+0.50 mm % IN U'SIZE	0.68
UNDERSIZE % EFF.	88.04
OVERSIZE % EFF.	99.01
OVERALL % EFF.	98.42