



2018

Product Data Sheet
Plant: Piney River

I. GEOLOGICAL FORMATION: APLITE

II. CHEMICAL ANALYSIS (March 2018) :

Silica	as SiO ₂	54.0%	Calcium	as CaO	0.5%
Iron	as Fe ₂ O ₃	6.7%	Magnesium	as MgO	4.7%
Aluminum	as Al ₂ O ₃	19.3%	Sulphur	as S	0.4%

III. QUALITY DATA:		Product													
TEST	TEST DATE	MP 1	MP 2	MP 3	MP 57	IMP 68	MP 78	MP 8	IMP 8/8P	9	B Sand	IMP A Sand	MP A Sand	10	
SPECIFIC GRAVITY															
BULK (ASPHALT)	02/18	2.789	2.774	2.798	2.809	2.803	2.812	2.803	2.811	2.792	2.800	2.800	2.782	2.802	
BULK - SSD (CONCRETE)	02/18	2.798	2.785	2.816	2.827	2.812	2.831	2.820	2.818	2.808	2.816	2.812	2.800	2.815	
APPARENT	02/18	2.814	2.805	2.851	2.860	2.830	2.867	28.000	2.831	2.837	2.845	2.835	2.833	2.837	
% ABSORPTION	02/18	0.3%	0.4%	0.7%	0.6%	0.4%	0.7%	0.5%	0.3%	0.6%	0.6%	0.4%	0.6%	0.4%	
* LOS ANGELES DEGRADATION *															
GRADING A % LOSS	02/18	16.2%													
GRADING B % LOSS	02/18	13.9%													
GRADING C % LOSS	02/18	17.8%													
SOUNDNESS % LOSS (Magnesium Sulfate)	02/18	0.4%	0.4%	0.5%	0.2%	0.1%	0.1%	0.2%	0.2%	3.3%	5.1%	5.7%	6.1%	4.3%	
SOUNDNESS % LOSS (Sodium Sulfate)															
Surface Treatment Rate of Application															
Stone (lb/sq yd)															
Emulsion (gal/sq yd)															
* SUPERPAVE *															
ASTM C1252 % VOIDS (METH A)	02/18										48.8%	46.5%	48.8%	49.1%	
AASHTO T 176 SAND EQUIVALENT	02/18										96	96	94	77	
ASTM D4791 % F & E (5:1)	02/18				0.3%	0.0%	1.6%	0.4%	0.0%						

QUARRY -4 WEIGHTS

MAXIMUM DRY DENSITY 132.4
 OPTIMUM MOISTURE 9.7
 BULK SPECIFIC GRAVITY 2.82
 ABS. 0.40

MAXIMUM DRY DENSITY _____
 OPTIMUM MOISTURE _____
 BULK SPECIFIC GRAVITY 2.82
 ABS. 0.40

PLAIN				WITH CEMENT			
% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY	% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY
70%	160.2	3.9	2566	70%	#DIV/0!	1.0	#DIV/0!
69%	159.7	4.0	2558	69%	#DIV/0!	1.0	#DIV/0!
68%	159.2	4.1	2550	68%	#DIV/0!	1.0	#DIV/0!
67%	158.7	4.1	2543	67%	#DIV/0!	0.9	#DIV/0!
66%	158.3	4.2	2535	66%	#DIV/0!	0.9	#DIV/0!
65%	157.8	4.3	2528	65%	#DIV/0!	0.9	#DIV/0!
64%	157.3	4.4	2520	64%	#DIV/0!	0.9	#DIV/0!
63%	156.9	4.5	2513	63%	#DIV/0!	0.9	#DIV/0!
62%	156.4	4.6	2506	62%	#DIV/0!	0.9	#DIV/0!
61%	156.0	4.6	2498	61%	#DIV/0!	0.9	#DIV/0!
60%	155.5	4.7	2491	60%	#DIV/0!	0.8	#DIV/0!
59%	155.0	4.8	2484	59%	#DIV/0!	0.8	#DIV/0!
58%	154.6	4.9	2477	58%	#DIV/0!	0.8	#DIV/0!
57%	154.2	5.0	2469	57%	#DIV/0!	0.8	#DIV/0!
56%	153.7	5.1	2462	56%	#DIV/0!	0.8	#DIV/0!
55%	153.3	5.1	2455	55%	#DIV/0!	0.8	#DIV/0!
54%	152.8	5.2	2448	54%	#DIV/0!	0.8	#DIV/0!
53%	152.4	5.3	2441	53%	#DIV/0!	0.7	#DIV/0!
52%	152.0	5.4	2434	52%	#DIV/0!	0.7	#DIV/0!
51%	151.5	5.5	2427	51%	#DIV/0!	0.7	#DIV/0!
50%	151.1	5.6	2421	50%	#DIV/0!	0.7	#DIV/0!
49%	150.7	5.6	2414	49%	#DIV/0!	0.7	#DIV/0!
48%	150.3	5.7	2407	48%	#DIV/0!	0.7	#DIV/0!
47%	149.8	5.8	2400	47%	#DIV/0!	0.7	#DIV/0!
46%	149.4	5.9	2394	46%	#DIV/0!	0.6	#DIV/0!
45%	149.0	6.0	2387	45%	#DIV/0!	0.6	#DIV/0!
44%	148.6	6.0	2380	44%	#DIV/0!	0.6	#DIV/0!
43%	148.2	6.1	2374	43%	#DIV/0!	0.6	#DIV/0!
42%	147.8	6.2	2367	42%	#DIV/0!	0.6	#DIV/0!
41%	147.4	6.3	2361	41%	#DIV/0!	0.6	#DIV/0!
40%	147.0	6.4	2354	40%	#DIV/0!	0.6	#DIV/0!
% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY	% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY
PLAIN				WITH CEMENT			