



2022

Product Data Sheet  
Plant: Piney River

I. GEOLOGICAL FORMATION: APLITE

II. CHEMICAL ANALYSIS (3/2022) :

Silica	as SiO2	57.9%	Calcium	as CaO	5.5%
Iron	as Fe2O3	2.6%	Magnesium	as MgO	1.2%
Aluminum	as Al2O3	20.4%	Sulphur	as S	0.1%

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	
<b>*SPECIFIC GRAVITY*</b>															
BULK (ASPHALT)	2/22	2.747	2.734	2.735	2.730	2.727	2.720	2.735	2.740	2.735	2.710	2.717	2.702	2.700	
BULK - SSD (CONCRETE)	2/22	2.759	2.744	2.751	2.744	2.740	2.742	2.751	2.757	2.751	2.728	2.740	2.730	2.731	
APPARENT	2/22	2.784	2.761	2.778	2.768	2.762	2.781	2.780	2.787	2.781	2.761	2.781	2.781	2.785	
% ABSORPTION	2/22	0.4%	0.4%	0.6%	0.5%	0.5%	0.8%	0.6%	0.6%	0.6%	0.7%	0.9%	1.1%	1.1%	
<b>* LOS ANGELES DEGRADATION *</b>															
GRADING A % LOSS	2/22	16.7%													
GRADING B % LOSS	2/22	18.5%													
GRADING C % LOSS	2/22	19.6%													
SOUNDNESS % LOSS (Magnesium Sulfate)	2/22	0.3%	0.3%	0.3%	0.4%	0.4%	0.5%	0.6%	0.5%	3.0%	3.6%	4.1%	4.1%	3.2%	
SOUNDNESS % LOSS (Sodium Sulfate)															
<b>* SUPERPAVE *</b>															
ASTM C1252 % VOIDS (METH A)	2/22										45.7%	45.8%	48.8%	49.3%	
AASHTO T 176 SAND EQUIVALENT	2/22										96	97	97	83	
ASTM D4791 % F & E (5:1)	2/22				0.6%	0.0%	4.9%	4.3%	0.0%						

**VIRGINIA DEPARTMENT OF TRANSPORTATION  
MATERIALS DIVISION  
REPORT ON THEORETICAL MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT  
(VTM-1)**

Report Date:	3/16/2022 3:16 PM	Production Year:	2022
Producer Name:	Boxley Materials Company	Plant Name:	Piney River
Job Mix ID:	3034-2014-01	Max. Dry Density (-No.4 portion):	132.4
Type Mix:	Aggregate Base Material-Type I	Optimum Moisture Content (-No.4 portion):	9.6 %
Size Aggregate:	21A	Bulk Specific Gravity:	2.820
Absorption::	0.4 %	Average percent of +No.4 material:	52.6 %
		Number of Samples Referenced:	4

Corrected Maximum Dry Density (lbs/ft³)	152.2
Corrected Optimum Moisture Content (%)	5.3

**NOTE:** This report has been generated by the Materials Information Tracking System (MITS) /  
Producer Lab Analysis and Information Details (PLAID).

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MATERIALS DIVISION  
REPORT ON THEORETICAL MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT  
(VTM-1)**

Report Date:	3/16/2022 3:18 PM	Production Year:	2022
Producer Name:	Boxley Materials Company	Plant Name:	Piney River
Job Mix ID:	3034-2014-03	Max. Dry Density (-No.4 portion):	132.4
Type Mix:	Aggregate Base Material-Type I	Optimum Moisture Content (-No.4 portion):	9.6 %
Size Aggregate:	21B	Bulk Specific Gravity:	2.820
Absorption::	0.4 %	Average percent of +No.4 material:	
		Number of Samples Referenced:	0

Corrected Maximum Dry Density (lbs/ft³)	N/A
Corrected Optimum Moisture Content (%)	N/A

**NOTE:** This report has been generated by the Materials Information Tracking System (MITS) /  
Producer Lab Analysis and Information Details (PLAID).