



2022

Product Data Sheet
Plant: Fieldale

I. GEOLOGICAL FORMATION: BIOTITE GNEISS

II. CHEMICAL ANALYSIS (3/2022) :

Silica	as SiO2	59.7%	Calcium	as CaO	2.8%
Iron	as Fe2O3	9.1%	Magnesium	as MgO	2.7%
Aluminum	as Al2O3	16.1%	Sulphur	as S	0.6%

III. QUALITY DATA:

TEST	TEST DATE	Product												
		357	5	W 57	REG 57	68	78	8P	8	9	10C	10	B Slurry	C Slurry
* SPECIFIC GRAVITY *														
BULK (ASPHALT)	1/22	2.838	2.801	2.804	2.814	2.802	2.781	2.803	2.788	2.842	2.764	2.760	2.772	2.776
BULK - SSD (CONCRETE)	1/22	2.847	2.815	2.816	2.826	2.820	2.800	2.822	2.810	2.801	2.782	2.775	2.791	2.794
APPARENT	1/22	2.864	2.840	2.837	2.847	2.852	2.836	2.858	2.851	2.842	2.809	2.800	2.825	2.810
% ABSORPTION	1/22	0.3%	0.5%	0.4%	0.4%	0.6%	0.7%	0.7%	0.8%	0.5%	0.6%	0.5%	0.7%	0.6%
* LOS ANGELES DEGRADATION *														
GRADING A % LOSS	1/22	23.5%												
GRADING B % LOSS	1/22	28.1%												
GRADING C % LOSS	1/22	29.5%												
GRADING D % LOSS														
SOUNDNESS % LOSS (Magnesium Sulfate)	1/22	0.3%	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%	0.5%	3.6%	3.2%	2.8%	2.8%	2.4%
SOUNDNESS % LOSS (Sodium Sulfate)														
Surface Treatment Rate of Application														
Stone (lb/sq yd)														
Emulsion (gal/sq yd)														
* SUPERPAVE *														
ASTM C1252 % VOIDS (METH A)	1/22										49.0%	49.4%	50.5%	50.6%
AASHTO T 176 SAND EQUIVALENT	1/22										96	80	79	82
ASTM D4791 % F & E (5:1)	1/22		0.4%	0.5%	0.6%	0.7%	1.0%	1.3%	2.2%					

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

Report Date:	3/16/2022 3:24 PM	Production Year:	2022
Producer Name:	Boxley Materials Company	Plant Name:	Martinsville Stone Corp.
Job Mix ID:	2009-2014-01	Max. Dry Density (-No.4 portion):	134.1
Type Mix:	Aggregate Base Material-Type I	Optimum Moisture Content (-No.4 portion):	8.0 %
Size Aggregate:	21A	Bulk Specific Gravity:	2.810
Absorption::	0.5 %	Average percent of +No.4 material:	51.3 %
		Number of Samples Referenced:	4

Corrected Maximum Dry Density (lbs/ft ³)	152.5
Corrected Optimum Moisture Content (%)	4.7

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

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

Report Date:	3/16/2022 3:25 PM	Production Year:	2022
Producer Name:	Boxley Materials Company	Plant Name:	Martinsville Stone Corp.
Job Mix ID:	2009-2014-03	Max. Dry Density (-No.4 portion):	134.1
Type Mix:	Aggregate Base Material-Type I	Optimum Moisture Content (-No.4 portion):	8.0 %
Size Aggregate:	21B	Bulk Specific Gravity:	2.810
Absorption::	0.5 %	Average percent of +No.4 material:	63.6 %
		Number of Samples Referenced:	4

Corrected Maximum Dry Density (lbs/ft³)	157.7
Corrected Optimum Moisture Content (%)	3.9

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