

Product Data Sheet Plant: Fieldale

I. GEOLOGICAL FORMATION: BIOTITE GNEISS

II. CHEMICAL ANALYSIS (3/2022):

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

III. QUALITY DATA:									Pro	duct					
III. QUALITI DATA.	TEST				W	REG								В	С
TEST	DATE		357	5	57	57	68	78	8P	8	9	10C	10	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%
DRY RODDED (LBS/CUBIC FT)	1/22		105.7	101.7	101.7	103.6	102.9	100.0	98.3	98.7	99.3	107.3	117.3	113.3	118.0
DRY RODDED (LBS/CUBIC YARD)	1/22		2853.9	2745.9	2745.9	2797.2	2778.3	2700.0	2654.1	2664.9	2681.1	2897.1	3167.1	3059.1	3186.0
DRY RODDED ( % VOIDS )	1/22		40.3%	41.8%	41.9%	41.0%	41.1%	42.4%	73.8%	43.3%	43.2%	37.8%	31.9%	34.5%	31.9%
DRY RODDED (Kg/Cubic Meter)	1/22		1693	1629	1629	1660	1648	1602	1575	1581	1591	1719	1879	1815	1890
VTM-5 % VOIDS IN STONE SAND	1/22											54.5%	55.0%	55.9%	55.7%
ASTM C1252 % VOIDS (METH B)	1/22											53.2%	53.8%	54.5%	54.5%
ASTM C1252 % VOIDS (METH C)	1/22											44.0%	43.3%	44.7%	44.7%
ASTM D4791 % F & E (3:1)	1/22			12.2%	4.2%	7.8%	11.9%	9.7%	8.5%	13.5%					
* 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)										<b>T</b>					
* SUPERPAVE *															
ASTM C1252 % VOIDS (METH A)	1/22											49.0%	49.4%	50.5%	50.6%
AASHTO T 176 SAND EQUIVALENT	1/22									i		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%					
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## 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/ft³)	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).

Form VTM-1 Rev 01/2020 Page 1 of 1

## 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).

Form VTM-1 Rev 01/2020 Page 1 of 1