



2022

Product Data Sheet  
Plant: Rich Patch

I. GEOLOGICAL FORMATION: Egglestone, Edinburg, Lincolnshire, and New Market Limestone

II. CHEMICAL ANALYSIS (3/2022) :

Silica	as SiO2	8.4%	Calcium	as CaO	48.0%	as CaCO3	80.0%
Iron	as Fe2O3	1.0%	Magnesium	as MgO	2.5%	as MgCO3	10.0%
Aluminum	as Al2O3	2.1%	Calcium Carbonate Equiv.			CCE	85.0%
Sulfur	as S	0.2%					

III. QUALITY DATA:

TEST	TEST DATE	Product												
		ROCKFILL A	ROCKFILL B	1	2	357	57	68	78	8	10	B SAND	LIME	9
<b>* SPECIFIC GRAVITY *</b>														
BULK (ASPHALT)	2/22	2.716	2.706	2.710	2.704	2.724	2.702	2.706	2.706	2.694	2.674	2.676	2.678	2.679
BULK - SSD (CONCRETE)	2/22	2.720	2.713	2.714	2.717	2.735	2.713	2.712	2.718	2.704	2.707	2.698	2.700	2.699
APPARENT	2/22	2.729	2.727	2.722	2.738	2.754	2.732	2.724	2.739	2.745	2.764	2.735	2.737	2.735
% ABSORPTION	2/22	0.2%	0.3%	0.2%	0.5%	0.4%	0.4%	0.3%	0.5%	0.5%	1.2%	0.8%	0.8%	0.8%
<b>* LOS ANGELES DEGRADATION *</b>														
DRY RODDED (LBS/CUBIC FT)	2/22	91.0	95.4	91.6	96.6	95.1	94.9	96.3	95.9	97.2	96.8	94.1	89.4	93.4
DRY RODDED (LBS/CUBIC YARD)	2/22	2457.0	2575.8	2473.2	2608.2	2567.7	2562.3	2600.1	2589.3	2624.4	2613.6	2540.7	2413.8	2521.8
DRY RODDED (% VOIDS)	2/22	46.3%	43.5%	45.8%	42.7%	44.0%	43.7%	42.9%	43.2%	42.2%	42.0%	43.7%	46.5%	44.1%
DRY RODDED (Kg/Cubic Meter)	2/22	1457.7	1528.2	1467.3	1547.4	1523.3	1520.1	1542.6	1536.2	1557.0	1550.6	1507.3	1432.0	1496.1
VTM-5 % VOIDS IN STONE SAND	2/22										45.9%	46.6%		
ASTM C1252 % VOIDS (METH B)	2/22										51.9%	51.6%		
ASTM C1252 % VOIDS (METH C)	2/22										41.8%	45.6%		
ASTM D4791 % F & E (3:1)	2/22					9.0%	9.9%	7.4%	6.3%					
GRADING A % LOSS	2/22													
GRADING B % LOSS	2/22													
GRADING C % LOSS	2/22													
SOUNDNESS % LOSS (Magnesium Sulfate)	2/22	1.1%	1.1%	1.1%	1.1%	1.3%	1.2%	1.0%	1.2%	1.2%	2.2%	1.8%	1.7%	2.7%
SOUNDNESS % LOSS (Sodium Sulfate)														
Stone (lb/sq yd)														
Emulsion (gal/sq yd)														
<b>* SUPERPAVE *</b>														
ASTM C1252 % VOIDS (METH A)	2/22										47.6%	47.5%		
AASHTO T 176 SAND EQUIVALENT	2/22										68	76		
ASTM D4791 % F & E (5:1)	2/22					0.5%	1.7%	2.2%	0.8%					

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

Report Date:	3/16/2022 3:28 PM	Production Year:	2022
Producer Name:	Boxley Materials Company	Plant Name:	Lowmoor (Alleghany)
Job Mix ID:	8025-2021-03	Max. Dry Density (-No.4 portion):	131.0
Type Mix:	Aggregate Base Material-Type I	Optimum Moisture Content (-No.4 portion):	9.5 %
Size Aggregate:	21B	Bulk Specific Gravity:	2.740
Absorption::	0.3 %	Average percent of +No.4 material:	53.5 %
		Number of Samples Referenced:	4

Corrected Maximum Dry Density (lbs/ft³)	149.7
Corrected Optimum Moisture Content (%)	5.1

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