

I. GEOLOGICAL FORMATION: ARVONIA SLATE
 II. CHEMICAL ANALYSIS (3/2023):

Silica	as SiO ₂	59.9%	Calcium	as CaO	1.2%
Iron	as Fe ₂ O ₃	8.0%	Magnesium	as MgO	2.8%
Aluminum	as Al ₂ O ₃	17.8%	Sulphur	as S	0.1%

III. QUALITY DATA:			Product									
TEST	TEST DATE		MOD 1	2	357	5L	VDOT 57	57L	VDOT 8	8L	9	A SAND
* SPECIFIC GRAVITY *												
BULK (ASPHALT)	1/23		2.784	2.789	2.777	2.794	2.786	2.767	2.784	2.774	2.731	2.731
BULK - SSD (CONCRETE)	1/23		2.793	2.797	2.787	2.803	2.798	2.776	2.804	2.793	2.748	2.752
APPARENT	1/23		2.803	2.813	2.805	2.819	2.819	2.793	2.841	2.826	2.779	2.794
% ABSORPTION	1/23		0.3%	0.3%	0.4%	0.3%	0.4%	0.3%	0.7%	0.7%	0.8%	1.0%
UNIT WEIGHT												
DRY RODDED (LBS/CUBIC FT)	1/23		103.8	100.6	93.3	92.9	92.5	90.7	95.3	95.5	92.8	104.1
DRY RODDED (LBS/CUBIC YARD)	1/23		2802.6	2716.2	2519.1	2508.3	2497.5	2448.9	2573.1	2578.5	2505.6	2810.7
DRY RODDED (% VOIDS)	1/23		40.2%	42.2%	46.2%	46.7%	46.8%	47.5%	45.2%	44.8%	45.6%	38.5%
DRY RODDED (Kg/Cubic Meter)	1/23		1663	1611	1495	1488	1482	1453	1527	1530	1487	1668
VTM-5 % VOIDS IN STONE SAND	1/23											56.8%
ASTM C1252 % VOIDS (METH B)	1/23											55.5%
ASTM C1252 % VOIDS (METH C)	1/23											53.1%
ASTM D4791 % F & E (3:1)	1/23						29.2%	37.5%	32.2%	44.4%		
* LOS ANGELES DEGRADATION *												
GRADING A % LOSS	1/23	18.6%										
GRADING B % LOSS	1/23	19.6%										
GRADING C % LOSS	1/23	23.7%										
SOUNDNESS % LOSS (Magnesium Sulfate)	1/23		0.4%	0.4%	0.5%	0.4%	0.5%	0.5%	0.6%	0.6%	7.5%	9.8%
SOUNDNESS % LOSS (Sodium Sulfate)												
* SUPERPAVE *												
ASTM C1252 % VOIDS (METH A)	1/23											50.8%
AASHTO T 176 SAND EQUIVALENT	1/23											86
ASTM D4791 % F & E (5:1)	1/23						17.3%	29.1%	18.0%	24.3%		