



2020

Product Data Sheet  
Plant: Arvonía

- I. GEOLOGICAL FORMATION: ARVONIA SLATE
- II. CHEMICAL ANALYSIS (April 2020) :

Silica as SiO<sub>2</sub> 58.2%  
Iron as Fe<sub>2</sub>O<sub>3</sub> 7.0%  
Aluminum as Al<sub>2</sub>O<sub>3</sub> 17.2%

Calcium as CaO 2.25%  
Magnesium as MgO 2.78%  
Sulphur as S 0.05%

III. QUALITY DATA:			Product								
TEST	TEST DATE		2	357	5L	VDOT 57	57L	VDOT 8	8L	9	A SAND
<b>* SPECIFIC GRAVITY *</b>											
BULK (ASPHALT)	4/2020		2.795	2.771	2.790	2.787	2.777	2.755	2.756	2.757	2.756
BULK - SSD (CONCRETE)	4/2020		2.800	2.783	2.798	2.798	2.787	2.767	2.773	2.773	2.780
APPARENT	4/2020		2.808	2.804	2.811	2.819	2.806	2.790	2.804	2.803	2.824
% ABSORPTION	4/2020		0.2%	0.4%	0.3%	0.4%	0.4%	0.5%	0.6%	0.6%	0.9%
<b>* UNIT WEIGHT*</b>											
DRY RODDED (LBS/CUBIC FT)	4/2020		95.7	99.0	95.1	94.1	91.9	93.3	94.5	99.1	100.1
DRY RODDED (LBS/CUBIC YARD)	4/2020		2583.9	2673.0	2567.7	2540.7	2481.3	2519.1	2551.5	2675.7	2702.7
DRY RODDED ( % VOIDS )	4/2020		45.1%	42.7%	45.4%	45.9%	47.0%	45.7%	45.1%	42.4%	41.8%
DRY RODDED (Kg/Cubic Meter)	4/2020		1533	1586	1523	1507	1472	1495	1514	1587	1603
VTM-5 % VOIDS IN STONE SAND	4/2020										57.2%
ASTM C1252 % VOIDS (METH B)	4/2020										56.1%
ASTM C1252 % VOIDS (METH C)	4/2020										49.6%
ASTM D4791 % F & E (3:1)	4/2020					39.3%	82.8%	44.8%	66.1%		
<b>* LOS ANGELES DEGRADATION *</b>											
GRADING A % LOSS	4/2020	22.1%									
GRADING B % LOSS	4/2020	19.7%									
GRADING C % LOSS	4/2020	20.6%									
SOUNDNESS % LOSS (Magnesium Sulfate)	4/2020		0.3%	0.3%	0.3%	0.4%	0.4%	0.6%	0.7%	3.7%	6.9%
SOUNDNESS % LOSS (Sodium Sulfate)											
<b>* Surface Treatment Rate of Application*</b>											
Stone (lb/sq yd)											
Emulsion (gal/sq yd)											
<b>* SUPERPAVE *</b>											
ASTM C1252 % VOIDS (METH A)	4/2020										51.8%
AASHTO T 176 SAND EQUIVALENT	4/2020										84
ASTM D4791 % F & E (5:1)	4/2020					3.9%	39.9%	9.7%	21.8%		