



2021

Product Data Sheet
Plant: Fieldale

I. GEOLOGICAL FORMATION: BIOTITE GNEISS

II. CHEMICAL ANALYSIS (May 2021) :

Silica	as SiO2	61.2%	Calcium	as CaO	3.5%
Iron	as Fe2O3	7.9%	Magnesium	as MgO	2.6%
Aluminum	as Al2O3	15.7%	Sulphur	as S	0.4%

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)	2/21	2.796	2.797	2.787	2.777	2.801	2.764	2.772	2.778	2.761	2.764	2.769	2.765	2.765	
BULK - SSD (CONCRETE)	2/21	2.803	2.806	2.799	2.799	2.809	2.791	2.806	2.798	2.783	2.780	2.779	2.784	2.784	
APPARENT	2/21	2.816	2.824	2.820	2.840	2.851	2.835	2.855	2.834	2.824	2.809	2.811	2.818	2.818	
% ABSORPTION	2/21	0.3%	0.3%	0.4%	0.8%	0.8%	0.6%	0.8%	0.7%	0.8%	0.6%	0.6%	0.7%	0.7%	
* LOS ANGELES DEGRADATION *															
DRY RODDED (LBS/CUBIC FT)	2/21	100.3	101.3	101.5	99.3	101.2	101.3	99.2	96.0	94.1	104.0	112.7	112.0	114.0	
DRY RODDED (LBS/CUBIC YARD)	2/21	2708.1	2735.1	2740.5	2681.1	2732.4	2735.1	2678.4	2592.0	2540.7	2808.0	3042.9	3024.0	3078.0	
DRY RODDED (% VOIDS)	2/21	42.5%	41.9%	41.7%	42.7%	42.1%	41.2%	42.6%	44.6%	45.4%	39.7%	34.8%	35.1%	33.9%	
DRY RODDED (Kg/Cubic Meter)	2/21	1607	1623	1626	1591	1621	1623	1589	1538	1507	1666	1805	1794	1826	
VTM-5 % VOIDS IN STONE SAND	2/21										55.9%	56.5%	55.8%	56.5%	
ASTM C1252 % VOIDS (METH B)	2/21										54.7%	55.3%	54.6%	55.3%	
ASTM C1252 % VOIDS (METH C)	2/21										46.2%	43.1%	41.3%	40.7%	
ASTM D4791 % F & E (3:1)	2/21	15.3%	13.7%	12.9%	12.9%	19.7%	16.2%	26.2%	15.1%						
GRADING A % LOSS	2/21	25.6%													
GRADING B % LOSS	2/21	27.0%													
GRADING C % LOSS	2/21	30.6%													
GRADING D % LOSS															
SOUNDNESS % LOSS (Magnesium Sulfate)	2/21	0.2%	1.0%	1.2%	1.2%	1.5%	1.6%	1.7%	1.7%	3.9%	7.4%	5.4%	5.5%	4.6%	
SOUNDNESS % LOSS (Sodium Sulfate)															
Surface Treatment Rate of Application															
Stone (lb/sq yd)															
Emulsion (gal/sq yd)															
* SUPERPAVE *															
ASTM C1252 % VOIDS (METH A)	2/21										50.9%	51.4%	50.4%	50.9%	
AASHTO T 176 SAND EQUIVALENT	2/21										94	81	74	75	
ASTM D4791 % F & E (5:1)	2/21	0.2%	0.2%	0.2%	0.6%	0.3%	0.5%	1.7%	0.2%						