

Ballast Laboratory Test(s)

Sample: 511 and 528

Sampling, Preparation, and Testing: AASHTO T19, ASTM D1557, AASHTO T89/90, ASTM C-131, AASHTO T193

Sample	Specification	511	528
Dry Rodded Unit Weight pdf	--->75	106	
Maximum Dry Density, pdf		142.0	
Optimum Moisture, %		4.50	
Plasticity Index, %	Non-Plastic	NP	
L.A. Wear	< 50	24	
California Bearing Ratio	> 70	74	

Grading (Sieve Size)

Size 1- 1/2"	100%	100%	100%
1"		93	95
3/4"	50 - 90	82	84
1/2"		61	70
3/8"		52	61
#4	25 - 55	37	45
#8		26	31
#16		20	27
#30		16	18
#50		13	14
#100		9	11
#200	3 - 10	7	7

Sample: M141

Sampling and Preparation: ASTM D75 and AASHTO T87

Test standard: ASTM C127

Sample	M141A	M141B
Bulk Specific Gravity	2.631	2.626
Bulk SSD Specific Gravity	2.638	2.634
Apparent Specific Gravity	2.649	2.646
Absorption (%)	0.27	0.28

Sample: M142

Sampling and Preparation: ASTM D75 and ASTM D421

Test standard: ASTM C127

Sample	M142A	M142B
Bulk Specific Gravity	2.633	2.625
Bulk SSD Specific Gravity	2.641	2.633
Apparent Specific Gravity	2.653	2.647
Absorption (%)	0.28	0.32