

WFLHD SAMPLE SIZE GUIDANCE SHEET

Masses (weights) listed below are minimum amounts required by WFLHD lab to run tests. One canvas bag holds approximately 23kg (50 pounds).

DEFINITION OF ‘NOMINAL’: For processed aggregate, the nominal maximum size of particles is the largest sieve size listed in the applicable specification, upon which any material is permitted to be retained. (AASHTO T 2)

NOTE: For tests not listed below, contact the WFLHD Materials Laboratory.

April 1, 2001

TESTS ON SUBBASE, BASE, & SURFACING AGGREGATES:				TESTS ON SOILS:			
	kgs	lbs		kgs	lbs		
AG-PG Complete Preliminary Testing of Gravel			SO-PS Complete Preliminary Testing Soils	40 (3)	90 (3)		
AG-1 to 10, 12 & 13 Subbase "A":	180	400	SO-1 to 5				
Subbase "B," or			SO-RI Routine Identification (classification) of Soils	25	55		
Base "C," "D," or "E":	160	350	SO-1 & 2				
AG-PQ Complete Preliminary Testing of Quarry			SO-2 Plasticity Index AASHTO T 89/90	5 (2)	12 (2)		
AG-4 to 10, 12 & 13 Subbase "A":	160	350	SO-3 Specific Gravity AASHTO T 100	5 (2)	12 (2)		
Subbase "B," or			SO-4 R-Value, 300 PSI Exudation	40 (3)	90 (3)		
Base "C," "D," or "E":	140	300	AASHTO T 190				
AG-EV Base or Subbase Evaluation			SO-7 Natural Moisture Content AASHTO T 265	2	5		
AG-1 to 6 & 16 Subbase "A":	90	200	SO-8 Moisture Density, AASHTO T 99	40 (3)	90 (3)		
Subbase "B" or			SO-9 Moisture Density, AASHTO T 180	40 (3)	90 (3)		
Base "C," "D," or "E":	70	150					
AG-1 Sieve Analysis AASHTO T 11/T 27 Subbase "A":	45 *	100 *	SO-21 California Bearing Ratio AASHTO T 193	40	90		
Subbase "B" or			SO-22 pH of Soil AASHTO T 289	5 (2)	12 (2)		
Base "C," "D," or "E":	23 *	50 *	SO-24 Direct Shear AASHTO T 236	5 (2)	12 (2)		
AG-10 Immersion Compression AASHTO T 165	80	180	SO-25 Resistivity AASHTO T 288	5 (2)	12 (2)		
			SO-26 Revegetation Analysis	2	4		soil with no large rocks
AG-16 R-Value, 300 PSI exudation AASHTO T 190			SO-27 Conductivity				1 quart of water in a plastic jug
19mm nominal size:							
50							
110							
75mm nominal size:							
75							
160							
AG-17 Humphre's Granular Compaction	180	400					
(NOTE: The FP-96 calls for 150kg but we would prefer to have 180kg if possible)							
* This is sufficient quantity to process the entire test group AG-1 thru AG-4							
TESTS ON CONCRETE AGGREGATES AND CONCRETE:				TESTS ON BITUMINOUS MATERIALS:			
	kgs	lbs		kgs	lbs		
CO-1 Sieve Analysis AASHTO T 11/T 27	15 (1)	34 (1)	AC-MD Hot Mix Design, consult with laboratory	363	800		
			AC-IC Preliminary Immersion Compression/CKE T 270	80	180		
CO-11 Compressive Strength (28-day break) AASHTO T 22	2 cylinders		AB-CC Complete Classification of liquid asphalt		1 quart metal can		
			AB-VG Verification of liquid asphalt grading		1 quart metal can		
			AB-RI Routine Identification of liquid asphalt		1 quart metal can		
			AB-EA Tests on emulsified asphalt		1 gallon plastic jug		
			AC-2 Bulk SG & air voids AASHTO T 166		6" diameter core		
			AC-5 & AC-3 Asphalt Content & gradation (T 30)	4	9		
			AC-6 Resilient Modulus		4" diameter core		
(1) Sample size may vary depending on maximum nominal size as follows:				(2) Minimum amount of minus 4.75mm (# 4) material that must be contained in the sample material being submitted. If the sample contains other size material, enough representative material must be sent so that sufficient minus 4.75mm material is obtained after sieving.			
85% - 4.75mm and 5% + 2.36mm	kgs	lbs					
9.5mm nominal maximum size	0.5	2					
TO							
50.0mm nominal maximum size	50	110					
For material with nominal sizes larger than 50mm	Call WFLHD Lab		(3) Sample size may vary depending on maximum nominal size as follows:				
				kgs	lbs		
			19.0mm nominal maximum size	40	90		
			75.0mm nominal maximum size	50	110		