

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				S0-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	Subbase "A":	90	200	SO-7 Natural Moisture Content AASHTO T 265		2	5
AG-1 to 6 & 16	Subbase "B" or			SO-8 Moisture Density, AASHTO T 99		40 (3)	90 (3)
	Base "C," "D," or "E":	70	150	SO-9 Moisture Density, AASHTO T 180		40 (3)	90 (3)
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)
AG-16 R-Value, 300 PSI exudation AASHTO T 190				SO-26 Revegetation Analysis		2	4
	19mm nominal size:						soil with no large rocks
	50			SO-27 Conductivity			1 quart of water
	75mm nominal size:						in a plastic jug
	75						
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
CO-11 Compressive Strength (28-day break) AASHTO T 22	2 cylinders			AC-IC Preliminary Immersion Compression/CKE T 270		80	180
				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		0.5	2	(3) Sample size may vary depending on maximum nominal size as follows:			
9.5mm nominal maximum size				19.0mm nominal maximum size		40	90
TO		50	110	75.0mm nominal maximum size		50	110
50.0mm nominal maximum size							
For material with nominal sizes larger than 50mm		Call WFLHD Lab					

