

Procedure Checklist

AASHTO R-58 Dry Preparation of Disturbed Soil & Soil Aggregate Samples for Test

		P	F	N/A
Initial Preparation				
1.	Sample air dried not exceeding 140°F (60°C).			
2.	Test samples obtained by splitting or quartering device.			
3.	Aggregations broken up in pulverizing apparatus avoiding reducing natural size of particles.			
4.	Weigh air dried sample and record mass as the total mass uncorrected for hygroscopic moisture.			
Sample separated into fractions by one of the following methods:				
5.	Method using No 4 (4.75 mm) and No 10 (2.00 mm) sieves. Skip to step 11 if only using No 10 sieve.			
6.	Sieve the sample over a No 4 (4.75 mm) sieve.			
7.	Material retained ground with pulverizing apparatus and sieved over No 4 (4.75 mm) sieve.			
8.	The fractions passing the No. 4 (4.75 mm) sieve shall be thoroughly mixed.			
9.	Representative portion of material passing No 4 (4.75 mm) sieve obtained for desired test by use of the sampler, splitter, or quartering.			
10.	The remaining portion passing the No 4 (4.75 mm) processed as described in steps 11-13			
11.	Material sieved over a No 10 (2.00 mm) sieve.			
12.	Material retained ground with pulverizing apparatus and sieved over No 10 (2.00 mm) sieve.			
13.	All fractions retained and passing the No 4 (4.75 mm) and No 10 (2.00 mm) weighed, recorded, and set aside for further analysis.			
Obtaining test samples for Particle Size Analysis and Specific Gravity				
14.	Fractions passing No 10 (2.00 mm) sieve thorough mixed and representative portion obtained for test sample by use of sampler or splitter or quartering.			
15.	Hydrometer analysis and sieve analysis (fraction passing No 10 (2.00 mm) sieve): 110g sandy soil, 60g silty or clayey soils.			
16.	Specific gravity: 25g using volumetric flask, 10g using stoppered bottle.			
17.	Any material retained on the No. 40 sieve shall be discarded.			
18.	The material passing the No. 40 sieve thoroughly mixed and used for the Liquid Limit and Plastic Limit tests, as well as other physical tests.			
Obtaining test samples for physical tests				
19.	Material passing No 10 (2.00 mm) sieve sieved over No 40 (0.425 mm) sieve into two parts.			
20.	Material retained ground with pulverizing apparatus and sieved over No 40 (0.425 mm) sieve.			
21.	Care taken not to reduce brittle particles and to remove finer particles adhered to larger particles.			
22.	Material retained ground a second time with pulverizing apparatus and sieved over No 40 (0.425 mm) sieve.			
23.	Grinding repeated until on a small quantity of soil passed the No 40 (0.425 mm) sieve.			
24.	All fractions passing No 40 (0.425 mm) sieve thoroughly mixed and set aside for physical tests.			
25.	Amount passing No 40 (0.425 mm) sieve retained for physical tests at least 300g.			

Remarks: _____ Comparison Criteria: **N/A**

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

Employer's/ Supervisor's E-mail Address: _____