WSDOT FOP for AASHTO T 90

Determining the Plastic Limit and Plasticity Index of Soils

WSDOT has adopted the published AASHTO T 90.

AASHTO Test Methods cannot be included in Materials Manual due to copyright infringement.

WSDOT employees can access AASHTO and ASTM test methods in the following web address: http://wwwi.wsdot.wa.gov/MatsLab/BusinessOperations/ASTMLogin.htm

Non-WSDOT employees can order AASHTO's Standard Specifications for Transportation Materials and Methods of Sampling and Testing, using the following web address: https://store.transportation.org

Performance Exam Checklist

AASHTO T 90
Determining the Plastic Limit and Plasticity Index of Soils

Participant Name _____ Exam Date _____

Preparation		**Yes**	**No**
1.	The tester has a copy of the current procedure on hand?	_____	_____
2.	All equipment is functioning according to the test procedure, and if required, has the current calibration/verification tags present?	_____	_____
3.	Sample obtained using AASHTO R 58?	_____	_____
4.	Minimum sample mass meets requirement of AASHTO T 90?	_____	_____
5.	Sample mixed with distilled, demineralized, or de-ionized water until plastic enough to be easily shaped into a ball?	_____	_____
6.	10 g portion of ball taken from the moist sample material?	_____	_____

Preparation		**Yes**	**No**
1.	1.5-2 g portion taken and formed into ellipsoidal mass?	_____	_____
2.	Mass rolled at between 80-90 strokes per minute (using one of the techniques described in T 90) for no more than 2 minutes to form a 3 mm diameter thread?	_____	_____
3.	Thread broken into six or eight pieces and pieces squeezed together into ellipsoidal shape and rerolled until thread crumbles and soil can no longer be rolled into a thread?	_____	_____
4.	Tested material placed in a tared covered container and procedure steps 1-6 repeated until all 10 g of material is tested?	_____	_____
5.	Sample dried in accordance with T 265 to determine moisture content?	_____	_____
6.	Were all calculations performed correctly?	_____	_____

First Attempt: Pass ☐ Fail ☐ Second Attempt: Pass ☐ Fail ☐

Signature of Examiner _____ WAQTC #:_____

Comments: