

WSDOT FOP for AASHTO T 90

Determining the Plastic Limit and Plasticity Index of Soils

WSDOT has adopted AASHTO T 90.

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? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. All equipment is functioning according to the test procedure, and if required, has the current calibration/verification tags present? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample obtained using AASHTO R 58? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Minimum sample mass meets requirement of AASHTO T 90? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Sample mixed with distilled or demineralized water until plastic enough to form ball allowed to sit for 12 hours undisturbed? | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. 8 g ball formed from the moist sample material? | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Ball broken into 1.5-2 g portions and formed into ellipsoidal masses? | <input type="checkbox"/> | <input type="checkbox"/> |

Procedure

- | | Yes | No |
|--|--------------------------|--------------------------|
| 1. 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? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Thread broken into six or eight pieces and pieces squeezed together into ellipsoidal shape and rerolled until thread crumbles under and soil can no longer be rolled into a thread? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Tested material placed in a tared covered container and procedure steps 1-6 repeated until all 8 g of material is tested? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Sample dried in accordance with T 265 to determine moisture content? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Were all calculations performed correctly? | <input type="checkbox"/> | <input type="checkbox"/> |

First Attempt: Pass Fail Second Attempt: Pass Fail

Signature of Examiner _____

Comments: