

Performance Exam Checklist

AASHTO T 90

Determining the Plastic Limit and Plasticity Index of Soils

Participant Name _____ Exam Date _____

Procedure Element	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. Minimum sample mass meets requirement of AASHTO T 90?	<input type="checkbox"/>	<input type="checkbox"/>
4. Dry material mixed with distilled or demineralized water and formed into ball weighing approximately 8 gram?	<input type="checkbox"/>	<input type="checkbox"/>
5. A 1.5 to 2 g portion of the ball selected and formed into an ellipsoidal mass?	<input type="checkbox"/>	<input type="checkbox"/>
6. Rolling method		
Hand rolling method		
a. Ellipsoidal mass rolled between fingers or palm and plate/paper at a rate of 80 to 90 strokes per minute?	<input type="checkbox"/>	<input type="checkbox"/>
Plastic Limit Device		
a. Ellipsoidal mass placed on bottom plate and top plate placed in in contact with mass?	<input type="checkbox"/>	<input type="checkbox"/>
b. Downward force in a back and forward motion applied to top plate so the plate comes in contact with the side rail within 2 minutes?	<input type="checkbox"/>	<input type="checkbox"/>
c. Soil thread not allowed to contact side rail during rolling?	<input type="checkbox"/>	<input type="checkbox"/>
7. When thread diameter is 3mm, thread broken into several pieces?	<input type="checkbox"/>	<input type="checkbox"/>
8. Pieces squeezed together between thumb and fingers into ellipsoidal mass?	<input type="checkbox"/>	<input type="checkbox"/>
9. Repeated from Step 5 until thread crumbles and soil can no longer be rolled into a thread?	<input type="checkbox"/>	<input type="checkbox"/>
10. Crumbled pieces placed in tared container and container covered?	<input type="checkbox"/>	<input type="checkbox"/>
11. Steps 5 through 10 repeated until all of the 8 g specimen has been tested?	<input type="checkbox"/>	<input type="checkbox"/>
12. Mass of specimen and container determined to 0.01 g?	<input type="checkbox"/>	<input type="checkbox"/>
13. Specimen dried and moisture content determined in accordance with AASTO T 265?	<input type="checkbox"/>	<input type="checkbox"/>
14. Plastic Limit & Plasticity Index calculated correctly?	<input type="checkbox"/>	<input type="checkbox"/>

First attempt: Pass Fail

Second attempt: Pass Fail

Signature of Examiner _____

Comments: