

## IA Checklist

### T 176 Plastic Fines in Graded Aggregates and Soils by Use of Sand Equivalent (Alternate Method 2-pre Wet)

No.	Item	P	F	NA
1	Shake material over a #4 sieve.			
2	Pulverize lumps of fine grained material so they may pass through the #4 sieve also.			
3	Clean all fines from particles retained on the #4 sieve and include them in the passing material.			
4	Split or Quarter -#4 materials to yield 500 to 750 grams.			
5	Perform fragile cast test for proper moisture content. Moisten if necessary, to obtain the fragile cast, and place in covered pan for specified tempering period (15 minutes minimum).			
6	Mix sample with splitting cloth by lifting and rolling opposite corners of the cloth until sample appears homogenous.			
7	Push tin through pile against hand to overflowing and compact with palm of hand.			
8	Remix sample, as stated in #6			
9	Fill a second tin , as stated in #7			
10	Place tins in oven at 110 +/- 5° C(230 +/- 9° F)			
11	Dry to a constant weight.			
12	Cool to room temperature.			
13	Fill graduated cylinder to the 4.0 +/- 0.1 inch mark with working solution.			
14	Pour prepared test sample from tin into cylinder using a funnel to avoid spillage.			
15	Tap the bottom of the cylinder to remove any air and thoroughly wet material.			
16	Allow to stand and soak for 10 minutes, +/- 1 minute.			
17	Loosen material in cylinder before shaking. Place stopper in cylinder.			
18	If using a mechanical shaker, shake cylinder and contents for 45, +/- 1 second. If shaking by hand, shake at 90 cycles in approximately 30 seconds using a throw of 229 +/- 25mm (9 +/- 1"). A cycle is defined as a complete back and forth motion.			
19	Set cylinder upright and remove stopper. Rinse material from stopper, with irrigation tube, back into cylinder.			
20	Place irrigation tube into material, rinsing fines from the sides. Apply proper action until all fines are flushed from bottom and cylinder is filled with solution to the 381mm mark.			
21	Allow to stand for 20 minutes, +/- 15 seconds.			
22	Read and record sand and clay readings correctly.			
23	Compute and record results correctly.			
24	Insure all equipment used meets requirements shown in AASHTO T176.			

**Remarks:**