# SAMPLE REDUCTION OF AGGREGATE SAMPLES AASHTO T 248

## APPARATUS

[ ] Sample splitter, open or closed type, with an even number of equal width chutes, but not less than eight. The minimum width of individual chutes shall be approximately two times larger than largest particles in sample. Bar openings of 3 in. or 6 bars wide may be used for all coarse aggregates No. 5 or smaller. (Coarse Aggregate and Mixed Aggregate)

[ ] Sample splitter with an even number of equal width chutes, but not less than twelve. Individual chutes shall be 1/2 in. to 3/4 in. wide. (Dry Fine Aggregate)

[ ] Straight-edge scoop, shovel, or trowel; a broom or brush; and a canvas blanket approximately 6 x 8 ft for quartering

[ ] Straight-edge scoop, shovel, or trowel for mixing the aggregate, and either small sampling thief, small scoop, or spoon for miniature stockpile sampling

## PROCEDURE

### Method A - Mechanical Splitter (Coarse Aggregate No. 5 or Smaller and Fine Aggregate Drier than SSD Condition)

[ ] Material uniformly distributed from edge to edge

[ ] Material allowed to free fall through the splitter. For a splitter with mechanical hopper, the hopper is opened fully.

[ ] Wet particles stuck to inside of splitter are removed by gently tapping the splitter with a rubber hammer (only if occurs)

[ ] Procedure repeated

### Method B – Quartering (Highly Moistened Compacted Aggregate)

[ ] Sample placed on hard, clean, level surface

[ ] Sample mixed by turning the entire sample over three times

[ ] Sample shoveled into conical pile depositing each shovelful on top of preceding one

[ ] Sample flattened to uniform thickness by pressing down apex with shovel

[ ] Sample diameter approximately four to eight times the thickness

[ ] Sample divided into four equal parts with shovel or trowel

[ ] Two diagonally opposite quarters removed, including all fine material by brush

[ ] Sample remixed and quartered, using above-noted procedure, until desired size obtained

**Method C - Miniature Stockpile Sample (Fine Aggregate with Free Moisture on Particle Surfaces)**

[ ] Sample placed on hard, clean, level surface
[ ] Sample mixed by turning entire sample over three times
[ ] Sample shoveled into conical pile by depositing each shovelful on top of preceding one
[ ] Sample flattened to uniform thickness by pressing down apex with shovel (only if done)
[ ] Sample obtained by selecting at least five increments of material at random locations from the miniature stockpile with sampling thief, scoop, or spoon

NA - Not Applicable
X - Requires Corrective Action
√ - Satisfactory

_____
Acceptance Technician

_____ _____
INDOT Date

Comments: _____

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