

EQUIPMENT

- 1 OVEN: Thermostatically controlled up to 176°C ±3°C.....
- 2 THERMOMETER: Range from 50 to 260 °C.....
- 3 MISCELLANEOUS: Shallow metal pan, scoop, gloves etc.

MIXTURE CONDITIONING PROCEDURES

- 1. FOR VOLUMETRIC MIXTURE DESIGN
 - a) mixture placed in a pan and spread to an even thickness of 25mm to 50 mm thickness.....
 - b) pan placed in a oven for 2 h ± 5 minutes at a temperature equal to the compaction temperature ± 3°C. Stir after 60 ± 5 minutes
 - c) pan removed from oven After 2 h ± 5 (the mixture is now ready for compaction or testing).....
 - d) compaction temperature based on kinematic viscosity of asphalt cement.....
 - e) compaction temperature of modified asphalt cement supplied by manufacturer.....
 - f) conditioning of plant produced material requested by Agency.....
- 2. SHORT TERM CONDITIONING FOR MIXTURE MECHANICAL PORPERTIES TESTING
 - a) mixture placed in pan and spread evenly to between 25 and 50 mm.....
 - b) pan placed in the oven for 4 h ± 5 minutes. Stir after every 60 ± 5 minutes to maintain uniform conditioning.
 - c) after 4 h ± 5 minutes remove the pan form the oven 9The mixture is now ready for further conditioning or testing).
- 3. LONG TERM CONDITIONING FOR MIXTURE MECHANICLAL PROPERTIES TESTING
 - a) applied to mixtures from item 2 above, plant-mixed HMA and roadway specimens.....
- 4. SPECIMENS COMPACTED USING THE SUPERPAVE GYRATORY COMPACTOR
 - a) specimens compacted according to T312.....
 - b) specimen extruded after 2 to 3 hours.....
 - c) specimen allowed to stand at room temperature for 16 h ± 1 h
- 5. SPECIMENS COMPACTED USING ROLLING WHEEL COMPACTOR
 - a) specimen compacted according to PP3 using the rolling wheel compactor
 - b) specimen cooled at room temperature for 16 h ± 1 h.....
 - c) slab removed from mold, saw or core the required specimens from slab
- 6. COMPACTED ROADWAY SPECIMENS
 - a) test specimens cooled at room temperature for 16 h ± 1 h
- 7. LONG TERM CONDITIOINING OF PREPARED TEST SPECIMENS
 - a) compacted test specimen placed in conditioning oven for 120 h ± 0.5 h at 85 ± 3°C.....
 - b) oven turned off, open doors and cool to room temperature (usually 16 h).....
 - c) sample now ready for testing as required
- 8. REPORT
 - a) binder grade, content (nearest 0.1 %) aggregate type and gradation (if applicable).....
 - b) mixture conditioning information for volumetric mixture design (if applicable)
 - i) mixture conditioning temperature in laboratory (compaction temperature to nearest 1°C).....
 - ii) mixture conditioning duration (to nearest minute)
 - iii) laboratory compaction temperature
 - c) short-term mixture conditioning for mixture mechanical property testing conditions (if applicable)
 - i) laboratory compaction temperature (nearest 1°C)
 - ii) long-term conditioning temperature in laboratory (if applicable).....
 - iii) long-term conditioning temperature in laboratory (nearest five minutes)

COMMENTS:
