

SUPERPAVE ASPHALT CONCRETE – REINFORCING FIBERS IN ASPHALT.
(REV 2-14-19)

ARTICLE 334-2 is expanded by the following:

334-2.5 Reinforcing Fibers: When specified in the Contract Documents, provide reinforcing fibers conforming to the requirements below. Design the asphalt mixture without the fibers. Do not alter the final mix design for the addition of fibers at the asphalt plant.

Add the fibers at a rate of 1 pound per ton of total mix. Introduce the fibers into the asphalt drum with a fiber delivery system meeting the requirements of the fiber manufacturer. Furnish, with the mix design submittal, certified test data for the fibers to be used on the project.

The physical properties of the reinforcing fibers shall be as follows:

1. Materials in a blend of polyolefin and para-aramid or aramid
2. Length: 3/4 inch
3. Form:
 - a. Polyolefin: Serrated
 - b. Aramid: Monofilament
4. Specific Gravity:
 - a. Polyolefin: 0.91
 - b. Aramid: 1.44
5. Tensile Strength:
 - a. Aramid: $\geq 400,000$ psi
6. Melt Temperature:
 - a. Polyolefin: $\geq 270^{\circ}\text{F}$
 - b. Aramid: $\geq 800^{\circ}\text{F}$
7. Acid/Alkali Resistance: Inert