

**SCRATCH HARDNESS  
OF  
COARSE AGGREGATE PARTICLES  
ITM 206**

**APPARATUS**

- Brass rod, 1/16 in. in diameter, with a rounded point capable of scratching a penny but failing to scratch a nickel
- Mounting device for brass rod

**PROCEDURE**

- Gravel only
- Sample retained on 3/8 in. sieve
- Each particle subjected to scratching motion of brass rod using a pressure of 2 lbf
- Particle classified as soft if one third or more of the volume of the particle has a groove in it without deposition of metal from brass rod or if separate particles are easily detached from mass

**CALCULATIONS**

- Percent of soft particles calculated correctly to 0.1% as follows:

$$P = \frac{W - S}{W} \times 100$$

where:

P = percent of soft particles

W = weight of test sample

S = weight of sample that is not classified as soft

NA - Not Applicable

X - Requires Corrective Action

√ - Satisfactory

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 Acceptance Technician

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 INDOT

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 Date

 Comments: \_\_\_\_\_
 

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