



Work Instructions  
**Colorfastness of Crocking of Leather**  
Date: September 2014

Based off of ASTM D5053 Colorfastness of Crocking of Leather

Materials needed:

- 1) Grey Scale for Staining
- 2) 4, 2x2in (50.8x50.8mm) Crockmeter Squares
- 3) Crockmeter
- 4) Distilled Water
- 5) Weight Scale
- 6) Wringer

**Step 1)** Using a cutting die with a minimum dimension of 2x5in (50.8x127mm), cut 2 specimens out of the leather to be tested. You may also use the leather itself if you want a nondestructive test, just be sure to use different areas for the dry and wet portions of the test.

**Step 2)** Place one of the leather specimens into the crockmeter and place the specimen holder on top of the specimen so the leather specimen is directly under the finger of the crockmeter.

**Step 3)** Place a crockmeter square on the finger of the crockmeter, clamping the cloth in place with the finger clamp.

**Step 4)** Lower the finger of the crockmeter onto the leather specimen.

**Step 5.1)** For a manual hand crank crockmeter, operate the machine for ten complete turns of the crank at a rate of one turn per second.

**Step 5.2)** For an electronic crockmeter, press the start button on the machine.

**Step 6)** Once the process of the crockmeter is complete, remove the crockmeter square immediately and let it hang dry for a minimum of 2 hours.

**Step 7)** Remove the leather specimen from the crockmeter.

**Step 8)** Repeat steps 2 through 7 using the opposite side that you previously tested. (If you tested the grain side first, test the flesh side this time.)

**Step 9)** Using the only leather specimen left, repeat steps 2 through 8 with one difference: for both times, before placing onto the finger, wet the crockmeter square with distilled water, using a wringer to bring the crockmeter square to 1.75 to 2 times its dry weight.

**Step 10)** After letting the crockmeter squares dry for a minimum of 2 hours, grade them using the Grey Scale for Staining and record them as Dry Grain, Wet Grain, Dry Flesh and Wet Flesh