

INTERNATIONAL TRUCK AND ENGINE CORPORATION		
CEMS (CORPORATE ENGINEERING MATERIAL SPECIFICATION)		NUMBER: CEMS-DT-10
TITLE: Rubbing Wear Test For Interior Components		CURRENT ISSUE DATE: October 2001
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1.0 SCOPE

This is a method to determine the wear characteristics of interior components of various compositions.

2.0 APPARATUS

A mechanical device capable of imparting a rubbing action with reciprocating stroke of 95 mm (3.75 in.) applied at a rate of 95 to 105 strokes per minute.

3.0 MATERIAL

3.1 A 44 mm (1.75) wide strip of # 10 white undyed cotton duck cloth approximately 305 mm (12 in.) in length

3.2 Roll of clear packaging tape approximately 47 mm (1.875 in.) wide

3.3 Cutting tool to cut tape and/or trim test material if necessary i.e. knife or razor blade

3.4 A 0.68 kg (1.5 lb.) weight that can be attached to the cotton cloth for foam or rubber steering wheels or a 1.36 kg (3.0 lb.) weight for hard plastic wheels

4.0 PROCEDURE

4.1 Inspect the interior component to determine type (i.e. Foam/rubber, or hard plastic).

4.2 Mount the component in approximately "Truck Position" on the testing device.

4.3 Attach one end of the cotton cloth to the reciprocating arm of the test devise.

4.4 Attach the appropriate weight to the other end of the cotton cloth.

4.5 For foam or rubber "soft feel" components go to (4.6) and for hard plastic components go to (4.7).

4.6 Apply clear tape to the component outlining an exposure zone approximately 12.7 mm (.5 in.) x 51 mm (2.0 in.) on the top surface.

4.7 Place the cotton cloth and weight over the top of the component so that the weight hangs over the side of the component opposite the test device.

4.8 Reset the cycle counter to 0.

4.9 Set the rate of the test device to 95 to 105 strokes per minute.

4.10 Depress the start switch to begin the test.

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4.11 Monitor the test periodically to evaluate wear on the component and condition of the clear tape outlining the exposure zone of a “soft feel” wheel.

4.12 Replace the clear plastic when it no longer outlines the intended exposure zone.

4.13 Continue monitoring and repeat (4.12) if necessary for a “soft feel” component.

4.14 End the test when the specified number of cycles has been reached or when the component exhibits excess wear.

4.15 Remove the part and the cotton cloth from the apparatus and evaluate each for wear and/or color transfer per the AATCC Chromatic Transference Scale

5.0 REPORT

Report the color transference by AATCC Number and describe the extent of the wear pattern.

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