

RESISTANCE OF COATINGS, LABELS, AND TAPES
TO FUELS

Application

This method is used to determine the resistance of coatings, labels, and tapes to fuels.

Apparatus and Materials Required

Burette

50 mL

Test Panels

150 x 200 mm

Test Fuels

1. 87 octane lead free
2. Ethanol blend (gasohol)
3. Methanol

Well Ventilated Hood

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Procedure

1. Prepare the coating, label, or tape as specified by the relevant Engineering Material Specification.
2. Fill the burette with Test Fuel No. 1, 87 Octane Lead free.
3. Set up the burette and test panel as shown in Figure 1.

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2001 03 20	Revised	Editorial – no technical change A. Cockman
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4. Allow the fuel to drip from the burette onto the test panel at a rate of one drop per 2 - 3 seconds onto the upper part of the panel near the center line for 10 minutes.
5. Suspend the test panel at 23 +/- 2 °C under draft-free conditions and examine after 1 h.
6. Examine test panel, label, or tape for evidence breaks, cracks, blisters, surface changes, loss of gloss, or loss of adhesion and report.
7. Repeat Steps 1 through 6 using Test Fuel No. 2, Ethanol blend (gasohol).
8. Repeat Steps 1 through 6 using Test Fuel No. 3, Methanol.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.