Ford Motor Company

FORD LABORATORY TEST METHOD AJ 109-01

DETERMINATION OF RECOVERED UNSAPONIFIABLES AND NONSAPONIFIABLES IN SOLUBLE OILS AND DRAW COMPOUNDS

Application

This test method is used to determine the percent unsaponifiables and nonsaponifiables in soluble oils and draw compounds.

Apparatus Required

Steam Bath

Oven
Capable of being maintained at 105 +/- 3 °C.

Separatory Funnels
500 mL, with Pyrex ground glass stoppers.

Hot Plate
Electric

Extraction Apparatus

Analytical Balance
Precision +/- 0.1 mg

Beaker
250 mL

Graduated Cylinder
200 mL

Materials Required

Isopropyl Alcohol
Reagent grade; CAUTION: Low flash point

Date	Action	Revisions	
2001 01 16	Revised	Editorial – no technical change	A. Cockman
2000 03 21		Editorial no technical change	A. Cockman
1992 06 03			

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Petroleum Ether
Reagent grade, BP 30-60 °C; CAUTION: Low flash point.

Hydrochloric Acid
Concentrated, reagent grade; CAUTION: Corrosive.

Potassium Hydroxide
Reagent grade; CAUTION: Corrosive.

Ethyl Ether
Reagent grade; CAUTION: Low flash point.

Sodium Sulfate
Reagent grade, anhydrous, crystalline

Cotton

Distilled or Deionized Water
10 ppm max total dissolved solids (ASTM D 1888).

Solutions Required

Isopropyl Alcohol
50/50 v/v/ with distilled water.

Sodium Sulfate Solution
20 % aqueous solution.

Methyl Orange Indicator
Dissolve 0.1 g of methyl orange reagent in 100 mL of distilled water.

Alcoholic Potassium Hydroxide
1.0 N

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.

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