

KES

Total Rosin Acids
Content of Coating vehicle

KES T – M174

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1. Scope of Application

This standard shall specify the analyzing method of appropriate content amount for total rosin acids, which do not react to fumaric acid, phenol and maleic acid among ester, varnish and alkyd resin.

2. Summary of Method

- (1) The specimen becomes soapy by potassium-hydroxide ethylene glycol. Then, it is oxidized by chloric acid.
- (2) It is gathered by benzene. Rosin, fat acid and heat soapy objects is gathered by benzene.
- (3) The weight of left over by vaporizing benzene is measured and the content amount of rosin is measured by appropriate method.

3. Apparatus

- (1) Air cooling pipe : Length 760 mm 24/40 Standard taper joint
- (2) Buret : Volume of 25 mL as an automatic buret
- (3) Erlenmeyer flask : Volume of 250 mL, 500 mL 24/40 ground joint
- (4) Separating solution funnel : Volume of 1 L
- (5) Steam Bath : Capable of operating in fume hood
- (6) Water profile trap : See figure 1
- (7) Pipet : Volume of 50 mL

4. Reagent

- (1) Benzene
- (2) Butyl alcohol – Sulfuric acid ester reagent

500 mL of n-butyl alcohol, 500 mL of benzene and 3.3 mL of sulfuric acid are added in the