

KES

Analysis of Waxy
Hydrocarbons and Mineral
Oil for Rubber Products

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Contents

1. Scope of Application

2. Waxy Hydrocarbons

3. Mineral Oil

Additional Rule



1. Scope of Application

This standard shall specify the analysis of waxy hydrocarbons and mineral oil for rubber products.

2. Waxy Hydrocarbons

2.1 Reagent

- (1) Chloroform
- (2) Ethyl alcohol : 100 %
- (3) Ethyl alcohol: 95 ~ 100 %

2.2 Method

- (1) After extraction of acetone, 50 ml of pure (100 %) ethyl alcohol is added to the non-saponifiable materials and it is heated on the steam bath for 30 minutes.
- (2) It is left at -5°C for 1 hour and filtrated at -5°C or lower temperature with keeping liquid phase. Then, the waxy hydrocarbons are separated.
- (3) Precipitator is washed by ethyl alcohol and cooled down at lower than -5°C .
At this moment, residual solution is stored for analysis of mineral oil.
- (4) Precipitator is dissolved by hot chloroform and gathered in 100 ~ 150 cc of beaker.
- (5) The flask is washed by hot chloroform and the washed solution is added to the beaker.
- (6) The solvent is vaporized on the steam bath and the precipitator is dried by air. Then, it is dried at $100 \pm 5^{\circ}\text{C}$ and cooled down.
- (7) After it is cooled down to the room temperature, the weight is measured.