

KES

**Analysis of Chloride in New
and Used Lubricants by
Sodium Alcoholate Method.**

KES T – M060

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1. Scope of application

This standard shall prescribe analysis method for quantitative of chloride in lubricants
(Including used one).

2. Method

Analysis of chloride in lubricant is based on sodium alcoholate.

3. Outline.

This standard shall be applied to quantitative method of chloride used as annex for grease
or lubricant.

4. Summary of method.

Dissolve sample to low boiling point hydrocarbon solvent heat to return with metal natrium
and n-butyl alcohol.

In this process, chloride is changed into NaCl.

Extract this with water, and examine extract with adjusting.

5. Equipment.

Reactor : 300 ml of round bottom flask and connected with refrigerator.

6. Reagent

(1) Benzyl alcohol : Use one with out white sediment by AgNO_3

(2) N- butyl alcohol

(3) Thio cyanate : Dissolve 350 g Ferric alum to 1 l distilled water and add 200 ml of nitrate
(1 + 2)

(4) Isoamyl alcohol : Use one with out white sediment by AgNO_3

(5) Naphtha