

KES

Testing Method of
Anti Rust Chractice
for Automatic Gasoline

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1. Scope of application

This standard shall specify test method of metallic anti-rust capacity for automatic gasoline.

2. Summary of method

This method is to test anti-rust capacity of metal of fuel system for automatic gasoline in reference to test method specified in KS M 2009 (Attendance capacity test method of lubricating oil).

However, sample, test condition and test method refer to additional rules.

3. Equipment

- (1) Water bath : This must maintain sample temperature at 38 ± 1 °C.
- (2) Sample container and cover : Reference to figure
- (3) Sample stirring stick : Reference to figure
- (4) Metallic test piece and supporting equipment : Test piece is a material related to fuel system and has a shape that can be assembled by cutting with size of $20 \sim 30\text{cm}^2$ of total area. (Reference to figure)

However, prepare for 2 set of material of test piece that correspond to stipulation of (a) ~ (e).

- (a) Aluminum : KS D 6701 (Aluminum and aluminum alloy plate) A 2024P
- (b) KS D 6005 (Zinc alloy diecast)
- (c) Casting iron : FC20 of KS D 4301 (Lime casting iron product)
- (d) Brass : BsP₃-Y₂H of KS D 5201 (Brass plate)
- (e) Copper : TcuP1-1/2H of KS D 2301 (Copper of tough pitch type)

4. Reagent

- (1) Anhydrous sodium sulfate
- (2) Sodium chloride
- (3) Sodium hydro carbonate
- (4) Ethyl alcohol
- (5) Benzene
- (6) Naphtha
- (7) Second ammonium of citric acid