

KES

Specification of Shockabsorb Oil for Automobiles

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1. Purpose

The present level of the shock absorber oil should be raised from the existing viscosity index of 70, to 180, making it capable in either low or high temperatures. The capacity of the parts in a vehicle that Uses a damper, will increase.

Standarizing the test method and quality control will ensure suitable quality and support the elevation of the running capacity.

2. Scope of Application

This standard shall specify the qualityindex of the oil pressure type, shock absorber used in damping and for the shock absorber oil displaced in the back door stay damper.

3. Material Symbol

The material Symbol of the shock absorber oil shall be of O-SS01.

4. Quality

The shock absorber oil shall be regularly added to highly refined mineral oil.

It should not contain moisture or any deposits, and not be harmful. It shall satisfy the requirements of Table 1.

5. Sample Ore Sampling Method

Comply to KS M2001 (Method of sampling crude oil and petroleum products).

6. Test Method**(1) Specific gravity**

The specific gravity test shall conform to KS M 2002 (gravity test method of crude oil or petroleum products)

(2) Ignition point

The specific gravity test shall conform to KS M2010 (ignition point test of crude oil or petroleum products)

(3) Viscosity and viscosity index

The specific gravity test shall conform to KS M 2014 (measuring method of equal viscosity points of crude oil and viscosity points of petroleum products)

(4) Pour point

The specific gravity test shall conform to KS M 2016 (crude petroleum and pour points of petroleum products and test methods of petroleum products)

(5) Bubble state

The specific gravity test shall conform to KS M 2025 (test method of petroleum products bubble state)

- (6) Anti-sulphurization
The specific gravity test shall conform to KS M 2220 (test method of anti-sulphurization of lubricants)
- (7) Sulphuric lime
The specific gravity test shall conform to KS M 2006 (test method of sulphuric lime of petrol eum products.)
- (8) Anti-rust capacity
The specific gravity test shall conform to KS M 2009 (test method of anti-rust grade of the lubricants)
- (9) Measure value
The specific gravity test shall conform to KS M 2004 (test method of neutralization value of petroleum products) or KS M 2024 (test method of neutralization of petroleum products (fix-method of reasonable indicator)
- (10) Evaporation
After taking a sample of 200g, blow in air until 2 drops per second flows through a glass bar 4mm in a diameter. Leave for 24hr in normal temperature and maintain for 120hrs then measure the evaporation state.
- (11) Copperplate rust
The specific gravity test shall conform to KSM 2018 (test method of copperplate rust of petroleum products)
- (12) Oil seal
The specific gravity test shall conform to KS M 2141 (brake fluid for vehicles) whereby test condition shall be $120 \pm 1^{\circ}\text{C} \times 70\text{hr}$, oil seal material as actual applying products)
- (13) Mingle
The specific gravity test shall conform to KS M 2141. Use the shock absorber oil of another product in place of the standard mingle sample of the absorber oil.
Describe the maker and name used. In this case, the test condition shall be $120 \pm 1^{\circ}\text{C} \ 3\text{hrs}$
- (14) Oxidation stability
The specific gravity test shall conform to KS M 2008 (test method of oxidation stability of turbine oil)
- (15) Aniline point
The specific gravity test shall conform to KS M 2053 aniline point and mxixed point (test method of petroleum product)
- (16) Tensile stability
The specific gravity test shall conform to JIS K 2232 (the tensible stability test method and calculation report of aireal operation fluid in petroleum group). Here, apply the ultra-sonicwave method, and specify the test method and test conditions.
- (17) Friction coefficient