

KES

Test Method for Mixability with Other Brake Fluids

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1. Scope of Application

This shall regulate evaluating method for mixability of brake fluids.

2. Test Equipment

(1) Centrifuge

(2) Thermostat

Use thermostat keeping stipulated temperature within ± 2 °C.

(3) Centrifuge test pipe

(4) Cold cell

This should be able to keep stipulated temperature within ± 2 °C.

3. Test Method

(1) Dilution rate of test sample shall be 1:10, 1:1 and 10:1 and decide mixable samples under agreement.

However, use fluid used for mixability evaluation test of brake fluid in principle.

(2) Fill mixture of 100ml in centrifuge. Deposit 3 catalysts such as electric copper (Ecu99.9- std. sh. 53551) and aluminum alloy (P-AC-4, std. sh. 53246) and cast iron (Gh 26-std. sh. 52205) in mixture. After that, block test pipe with cork cover and keep it at oven of 80 ± 2 °C for 120 hours.

(3) After removing test pipe from oven and taking out catalysts, centrifuge it at 1000 ± 20 rpm for 30 minutes. After that, check fluids.

(4) If solid particle or layer separation does not happen, put test sample in cold cell with sample of -30 ± 2 °C again and keep it at the surrounding temperature. After keeping it for 48 hours, take out test pipe and catalyst and centrifuge it at 100 ± 20 rpm for 30 minutes.