

KES

**Test Method of Humidity
Protective Power of Brake Fluid**

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1. Scope of application

This standard shall be applied to evaluate humidity protective power of brake fluid in the part of brake system.

2. Test equipment

Humidity chamber:

Use test machine that can be kept at 0~100°C of temperature and 30~99% RH of humidity.

3. Test sample

Use all the components for test sample that contact brake fluid in brake system. If the component is not available, use ferrous metal instead.

4. Method

- (1) Wash each component with ethyl alcohol or isopropyl alcohol cleanly, and dry it with dried air.
- (2) After drying it with air, check rust or change of color. If the sample has faults, discard it.
- (3) Apply test brake fluid on each test part with a cotton thoroughly.
- (4) Keep test sample, which is applied brake fluid, horizontal and put it in humidity chamber.
- (5) One cycle of evaluation condition consists of 16 hours at $45\pm 2^{\circ}\text{C}$, 95%RH and 8 hours at $20\pm 2^{\circ}\text{C}$, 95%RH in humidity chamber. Evaluate 12 cycles.
- (6) After finishing test, wash it with isopropyl alcohol or ethyl alcohol and remove brake fluid. Dry it with hot air.
- (7) Compare it with test sample before test. Evaluate and record humidity protective power.