

KES

**Oxidation Stability
Test of Insulating Oil**

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1. Scope of Application

This shall regulate oxidation stability test of insulating oil.

2. Test meaning

Measure sludge and acid after heating with pressure of oxygen (+ 6 mmHg) and temperature (120 °C) and time (75 hours).

3. Test device

- (1) Constant temperature oil bath : Each part should be kept at 120 ± 0.5 °C. mix sample without hard vibration.
- (2) Oxygen gas : This shall be more than 98 % genuine from bombe and water.
- (3) Oxygen reservoir : Use this without oxygen from bombe and water.
- (4) Oxygen drier : This shall be for dry oxygen and use blue gel and change discolored one (Diameter 20 mm and height 150 ~ 200 mm U pipe).
- (5) Sample reservoir : This shall be figure 1 and hard.
- (6) Gas pressure regulator and mercury manometer : This shall be 30 mm diameter and 200 mm depth and with 3 mm inner radius glass pipe and control depth according to the clause 7.

Mercury manometer shall be figure 2 of inner radius 3 mm.
- (7) Mass flask and pippete : This shall be 500 ml and pippete shall be 25 ml.
- (8) Weighing bottle : This shall be 70 ml and spotting.
- (9) Filter and mapsrun filter : Filter shall be 5 class C minute inKS N 7602 (Filter) and mapsrun shall be no resolute in 0.8 ~ 1.2 μ m hole.
- (10) Glass filter : This shall be 1um hole in glass filter of KS L 2303
- (11) Filter bottle : This shall be more than 500 ml

- (12) Filter keeping : This shall be fixed with both sides.
- (13) Thermometer : This shall be 25 in KS B 5314.
- (14) Test device : This shall be placed as figure 2.

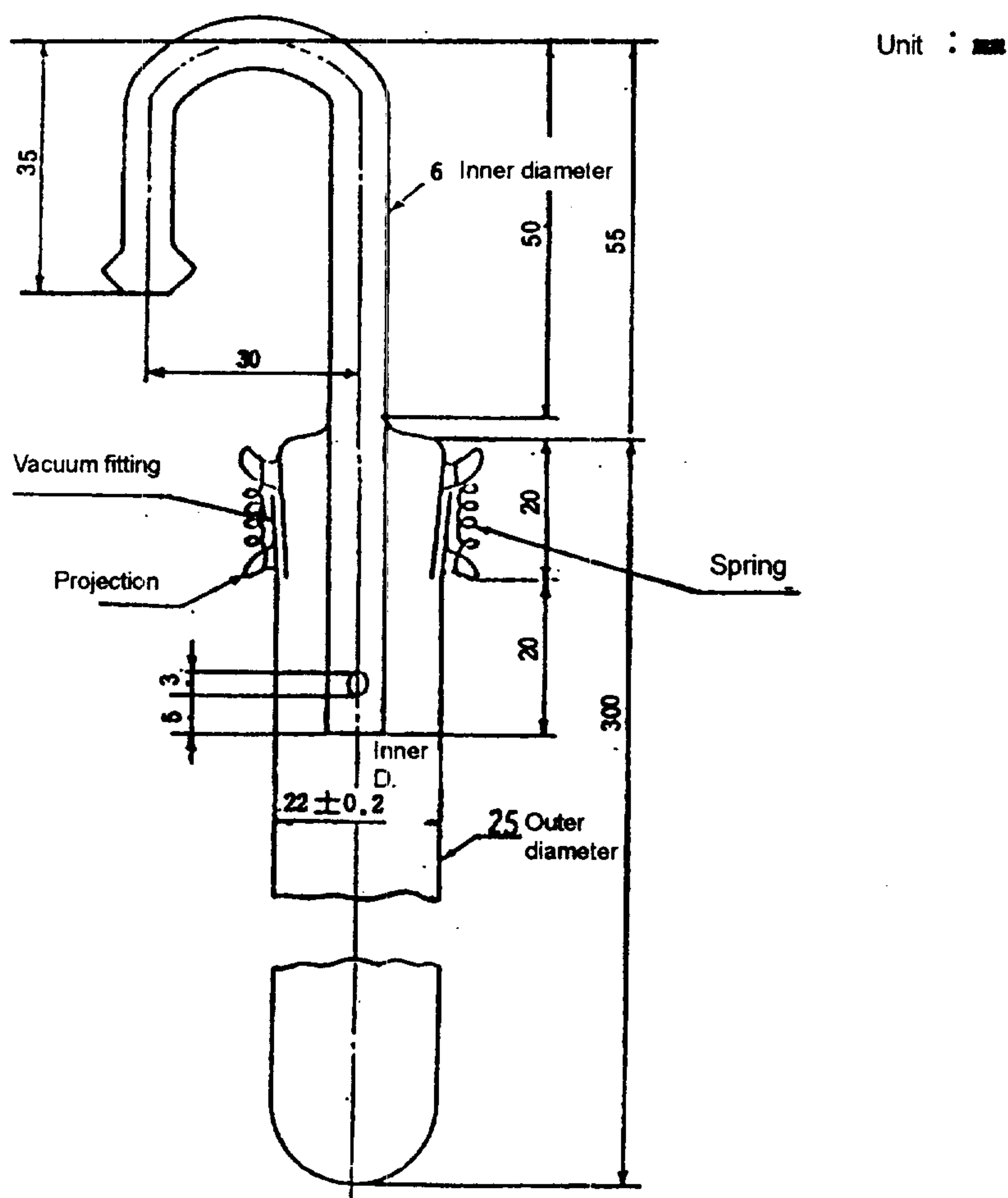


Figure 1 Sample vessel (Hard glass)