

KES

**Testing Method for Cloud
Point of Crude Oil and
Petroleum Products**

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1. Scope of Application

This standard shall specify a measuring method for cloud point of petroleum and crude oil products. The cloud point test is not applied to petroleum products, which opaque things and the cloud point are higher than 49°C when a thickness of liquid layer is 40mm.

Remark For the cloud point test, if the thickness of liquid layer is 40mm, bleach specimen, which is opaque and deposition of paraffin wax cannot be seen easily.

2. Definition of Terminology

(1) Cloud point

It is a temperature that the specimen at the bottom of the test tube becomes foggy or cloudy by separation of the paraffin wax when cooled down by a specified method without stirring the specimen, and is expressed in integers.

3. Cloud Point Test Method

3.1 Summary of test method

Put 45 ml of the specimen, obtained in the test tube, into the outer pipe of cooling bath, and cool down with the specified method. Take out the test tube whenever the temperature of the specimen decreases by 1°C, and the temperature when the bottom of the specimen is cloudy is called the cloud point.

3.2 Cloud point test device

It is as shown in Figure 1.

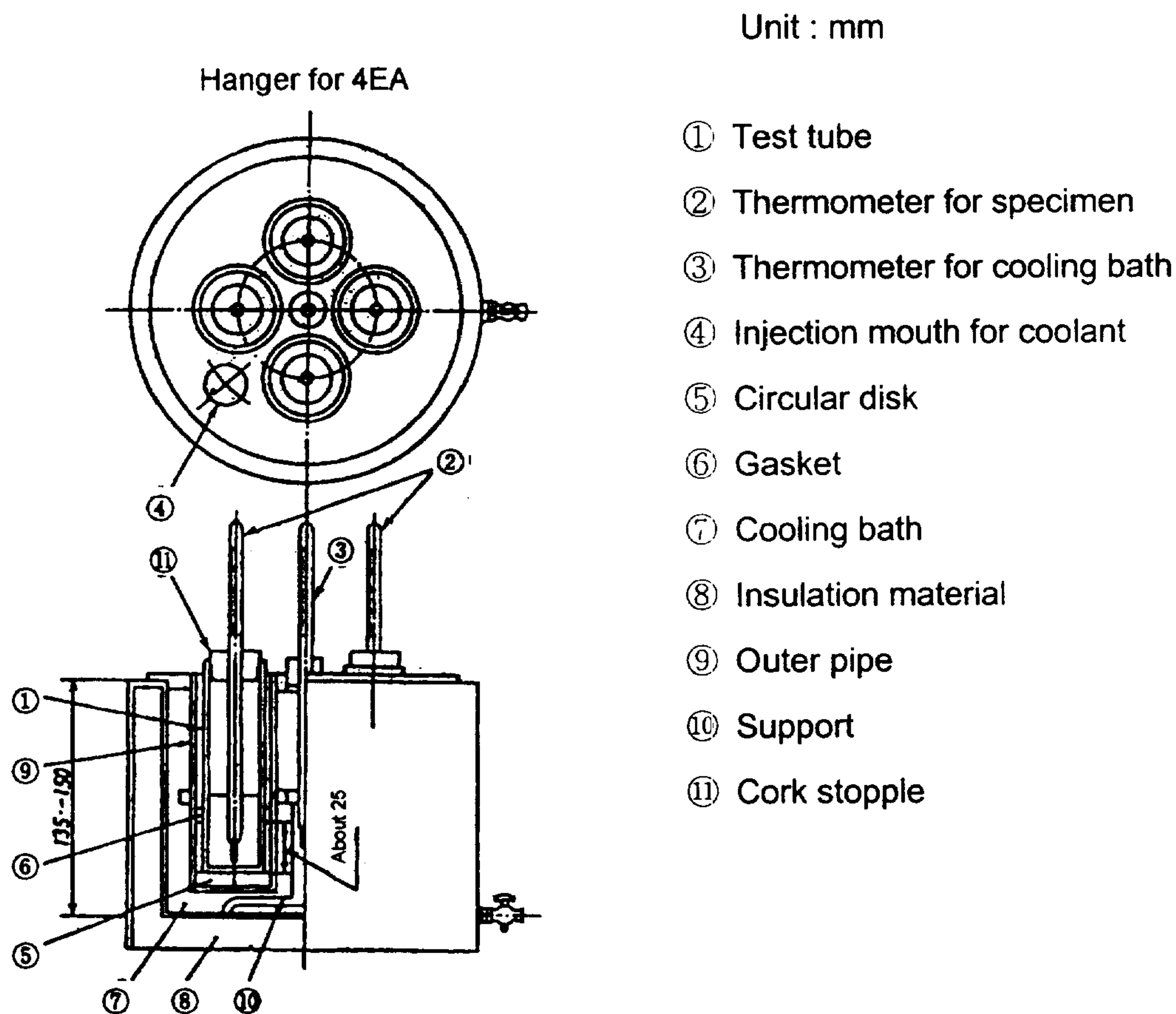


Figure 1. Cloud point test device

(1) Test tube

Use the one that is specified in KS M 2670 (Glass Tool for Petroleum Test)

(2) Cork stopple

Use a cork stopple, which size is indicated in Figure 2, and it shall have a hole at the center for a thermometer to be inserted.

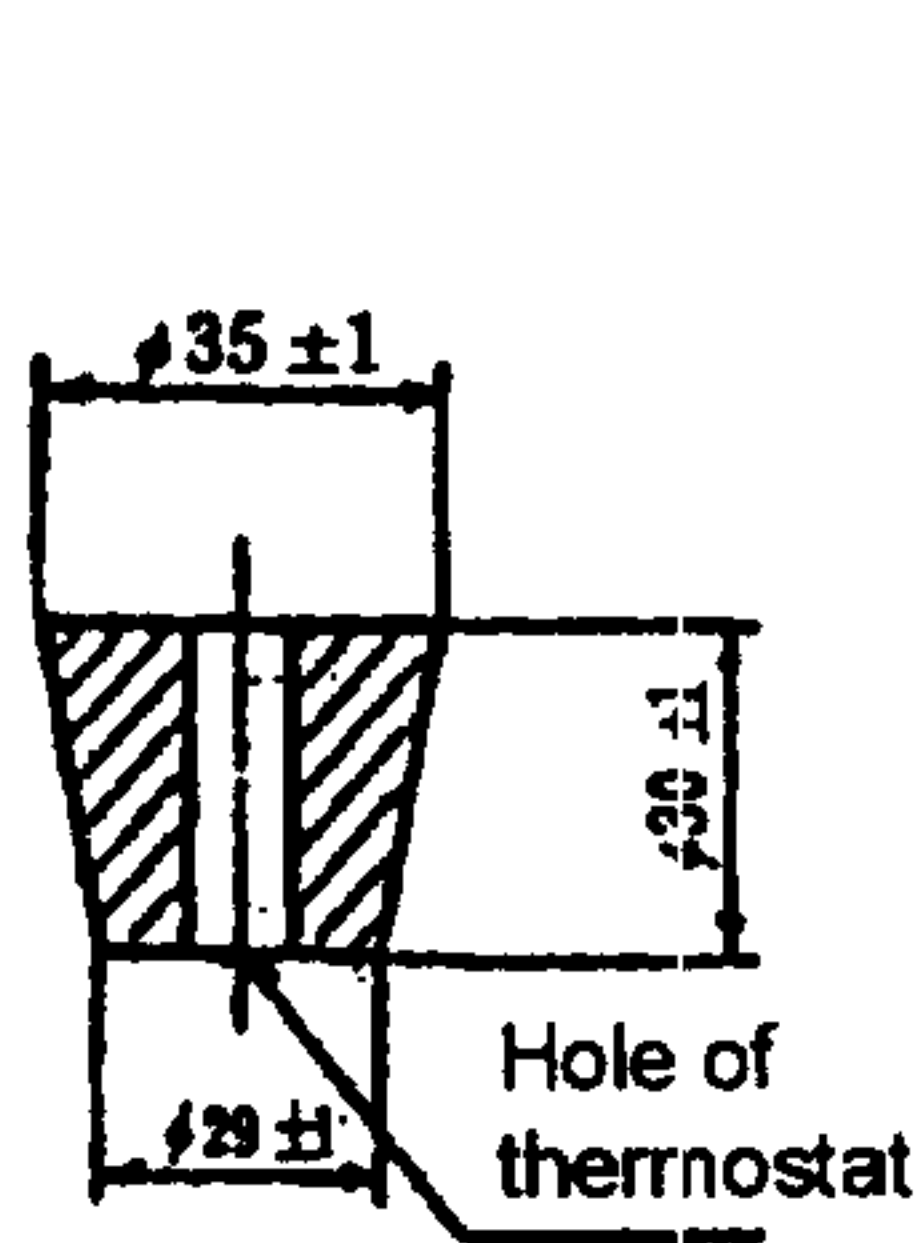


Figure 2. Cork stopple