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INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

Copa de Densidad SI-QBB

SAILING INTERNATIONAL TRADING CO., LTD

Density Cup Instruction

Ⅰ. Application:

QBB Density Cup is applicable to determine the liquid density for various coatings, accessory material, oils, etc. It complies with GB/T 6750-2007.

Ⅱ. Equipment and appliance:

1. Precision balance: 50ml to 100ml capacity cup is accurate to 10mg, less than 50ml is accurate to 1mg (provide for oneself)
2. Mercury thermometer: 0~50℃, Graduation value is 0.2℃ (provide for oneself)

Ⅲ. Main Technical Parameters:

Specification（ml）	37	50	100
Test temperature（□）	23±0.5		
Material	Stainless stee		

Ⅳ. Testing Procedure

1. Before testing, Density Cup should be mopped and cleaned inside and outside. After drying, the density cup with cover is put on the tray of balance, weigh mass m1 of density cup.
2. Taking off the upper cover of Density Cup, pouring testing sample close to the mouth of a cup. (Notice: Bubbling should not be allowed, then putting cover on the cup. When surplus part of testing sample overflows from the small hole, which is on the center of cover, wipe with a clean cloth.
3. Gently put the density cup with testing sample on the tray of the balance, record mass m2 of density cup which is filled with tested products.
4. Specific gravity is calculated by:

$$\rho = \frac{m_2 - m_1}{v_t}$$

Where:
m1－mass of empty density cup (g)
m2－under test temperature, mass of density cup which is filled with tested products (g)
V_t－volume of Density Cup under test temperature
When tested by density cup, sampling and testing should be repeated two times, the value is arithmetic mean.
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