

HP-HT Pendant Drop IFT Measurement

VIT-ES30



Description:

The Pendant Drop Interfacial Tension system is designed to measure interfacial tension between liquid-gas and liquid-liquid interfaces through the pendant drop method. Additionally, it assesses the contact angle between liquid and solid interfaces under reservoir pressure and temperatures up to 700 bar and 150 °C. The versatile design of the cell accommodates different needle sizes for a broad measurement range. This apparatus employs two manual pumps for the independent discharge of bulk fluid and drop fluid into the visual cell, featuring sapphire sight glasses with metallic seals.

Technical Specification:

- IFT range: 1-72 mN·m⁻¹
- Maximum working pressure: 600 bar
- Pressure transmitter
- Pressure accuracy: 0.25 % full scale
- Maximum working temperature: 100 °C
- Temperature resolution: ±0.1 °C
- High-pressure cell equipped with 2 HP sight glasses
- Two high-pressure manual pumps
- Digital camera 200x
- Four degrees of freedom camera positioner
- Backlight
- Online drop shape analysis software



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