

Contact Angle

Principle:

The contact angle is described as a quantitative measure of the wetting of a material by a known liquid. If the contact angle is below 90° , the material is wetting or hydrophilic; if it's above 90° , the material is non-wetting or hydrophobic.

The sessile drop technique is used in CREST for contact angle and surface energy determination of different coatings/materials.

The liquid used for such experiments is referred to as the probe liquid, water is usually used but other liquids can be used.

The test is performed as specified in standards ASTM D7334-08, and ISO 19403-1:2017.

Current Model:

The contact angle of the coating is measured using an FTA-200 instrument.

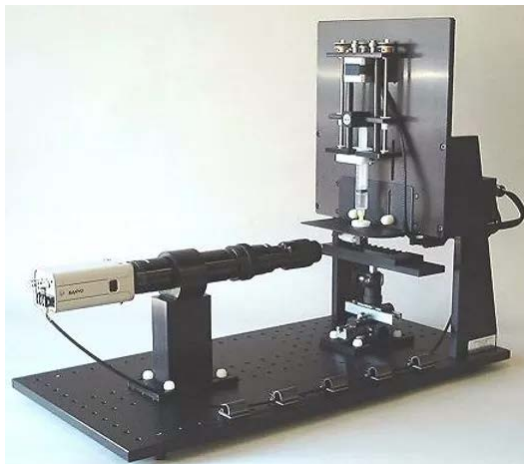


Figure FTA 200 Contact Angle tester

Typical Samples:

Contact angle measures is applied to paint, solutions, coatings, varnishes etc.

Standards:

The samples are assessed using international standards

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