Application Brochure

Industrial Surface energy Measuring instrument

LOW PRICE
PRECISE
EASY TO USE
RUGGED

This replaces Expensive R&D instruments on the Market to do the specific task of industrial adhesion measurements

By: Rhett Barriere BSc.

Canada Office
1645 St. Patrick
Montreal, Quebec
H3K 3G9
P 514-937-7931 ext. 21
1-800-767-9695

"We don't sell products,
we sell performance"

FOLIO INSTRUMENTS

www.folioinstruments.com

Similar to above picture

Introduction:

Surface energy quantitation is a powerfull tool in determining the behavior at the solid liquid interface.

Method:

Using a dual liquid probe, the surface is characterized for it's polar and dispersive component. The polar component characterizes the physical forces while the dispersive characterizes the chemical forces.

Benefit:

The operator will know if the liquid surface interface will perform for his application.

Specifications

- USB camera with lens assembly
- Variable height stand
- Illuminator
- Semi automatic curve fitting algorithm
- Price: $ 5,999.00 CAN

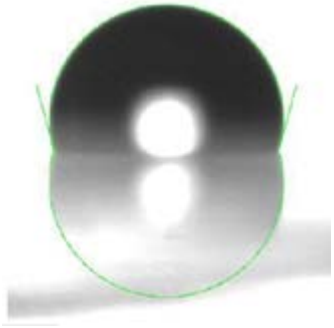
Options

- Surface tension by pendant drop and Automated contact angle analysis software
  Price: $ 2,750.00 CAN

- Upgrade to Variable x-y-z table
  Price: $ 650.00 CAN

- Syringe holder above sample
  Price: $ 400.00

Why is surface energy important?



The polar component of a surface will manifest itself differently with different liquids.

For example: A liquid such as a dyne pen solution could show the same contact angle on two different surfaces.

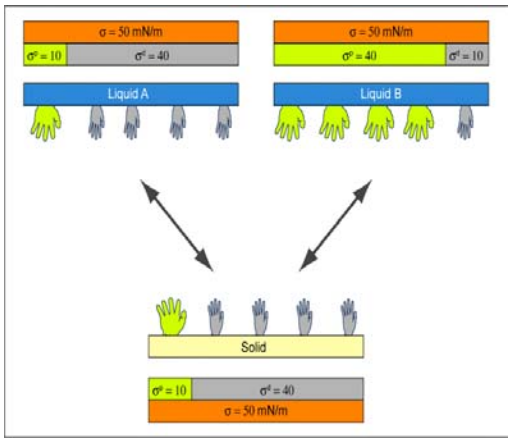
But the liquid used would show different contact angles on the same surface.

Surface energy measurement properly characterizes the two dimensional nature of solid surfaces.

Example:

Sample	Surface energy	Dispersive	Polar
1	50	10	40
2	50	40	10

Both have the same surface energy but sample 1 is more active chemically than sample 2



LB ADSA method above and Drop snake method below

Pendant drop surface tension calculation below