

## 1.4.06–11 Surface tension by the pull-out method with Cobra3



## What you can learn about ...

- Surface energy
- Surface tension
- Surface adhesion
- Bounding surface

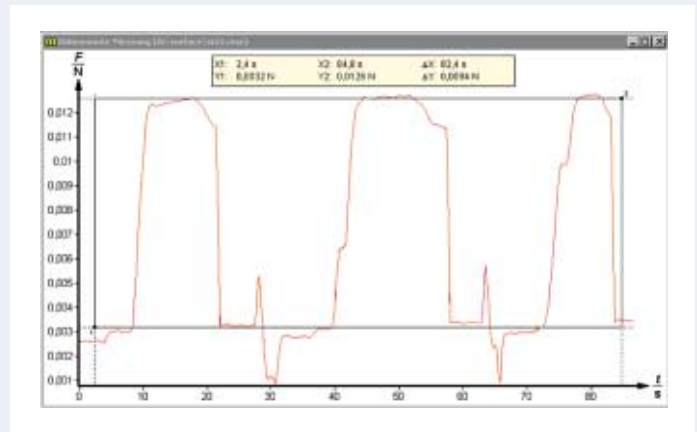
## Principle:

The force exerted on a measuring ring shortly before the liquid film is torn away is determined with a force meter. The surface tension is calculated from the diameter of the ring and the tearing force.

## What you need:

Surface tension measuring ring	17547.00	1
Cobra3 Basic Unit	12150.00	1
Power supply, 12 V-	12151.99	1
RS232 cable	14602.00	1
Cobra3 Force/Tesla software	14515.61	1
Measuring module Newton	12110.00	1
Newton sensor	12110.01	1
Right angle clamp -PASS-	02040.55	1
Tripod base -PASS-	02002.55	1
Support rod -PASS-, square, $l = 250$ mm	02025.55	1
Lab jack, 160×130 mm	02074.00	1
Petri dish, $d = 200$ mm, glass	64796.00	1

**Complete Equipment Set, Manual on CD-ROM included**  
**Surface tension by the pull-out method**  
**with Cobra3** P2140611



Typical measurement values

## Tasks:

Determination of the surface tension of water and other liquids.