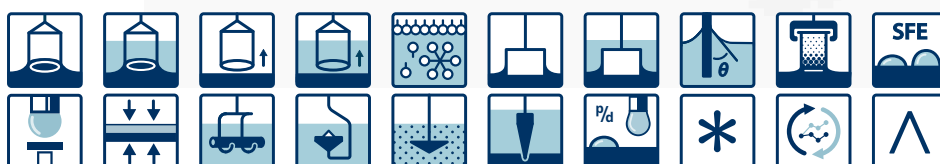


Tensió



Tasks and applications

- Determination of the effectiveness and efficiency of surfactants by CMC measurement
- Wetting behavior of tablets, pharmaceutical active ingredients, and excipients
- Wetting of varnishes and paints
- Analyzing the aging status of oils according to ASTM D 971 and IEC 62961
- Wetting and adhesion of coatings
- Development of cosmetic products
- Wetting properties of inks
- Wetting of fiber bundles and textiles
- Sedimentation and ductility of dispersions
- Checking of surface modifications
- Adhesion at superhydrophobic surfaces

Measuring methods and options

- Surface tension and interfacial tension using the ring, plate, and rod method
- Surface tension and interfacial tension using the ring tear-off method
- Critical micelle concentration (CMC) of surfactants
- Contact angle and surface free energy of solids, powders or fiber bundles
- Density of liquids and solids
- Sedimentation behavior of dispersions
- Penetration resistance of sediments
- Temperatures between -15 and 350 °C, temperature measurement with internal or external sensor

The next-generation tensiometer that grows with your tasks

Do you need a tensiometer that is tailor-made for a specific task or an all-round solution for analyzing liquid and solid surfaces and interfaces? Let us equip your Tensió with the many options you need – or the few. In any case, the high-resolution force sensor provides for maximum precision and is capable of measuring low interfacial tensions and even wetting forces at single fibers. Measurements are carried out quickly thanks to exceptionally fast, still very precise sample positioning. The optional camera enables monitoring the automatic measurements while the clear image-to-result assignment documents everything that happened during the measurement.



The optional camera records your adhesion measurement and paves the way for new methods.



Control and follow your analyses with the touch panel - perfectly synchronized with the ADVANCE software.

Specifications

Force measurement

Maximum load	210 g
Resolution	10 μ g
Measurement rate	50 Hz
Locking mechanism	automatic

Sample stage

Travel distance	120 mm
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Drive

Travel speed	0.001 to 800 mm/min
Resolution	16 nm

Interfacial and surface tension

Range	1 to 2000 mN/m
Resolution	up to 0.001 mN/m

Contact angle

	Washburn	Wilhelmy plate
Range	0 to 90°	0 to 180°
Resolution	0.01°	0.01°

Temperature control

	internal	external
Accessible range	-15 to 300 °C	-10 to 130 °C