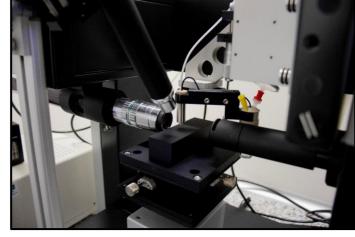
Goniometer Krüss DSA100E



Goniometer for picoliter drops











Goniometer

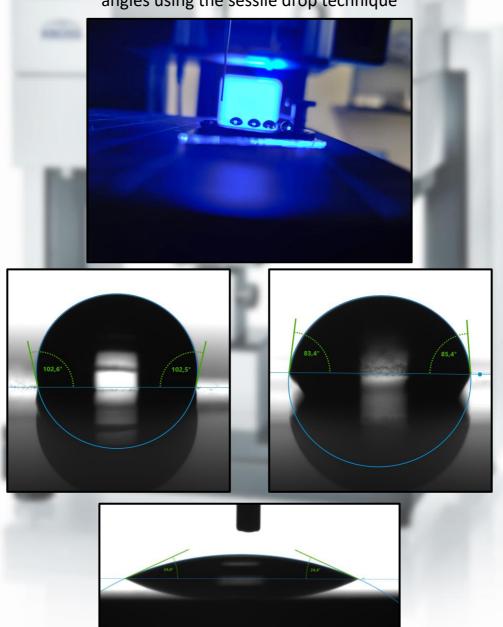
Evaluation of the **surface tension of solids** -by means of contact angles with drops of even only 10⁻¹² L- and of **surface tension of liquids** -by means of the pending drop method-, under controlled temperature and humidity atmospheres.

- ➤ It provides service to corporate R&D and support for its controls according to ISO, ASTM, ASME and EUR standards.
- ➤ It provides service to research groups with detailed reports according to their investigation needs.

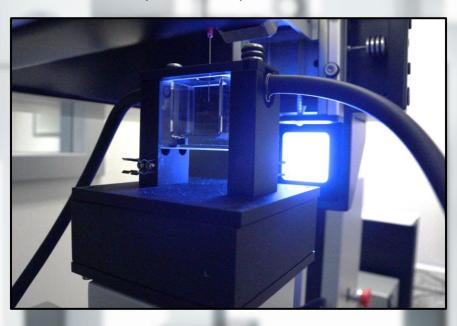
Service provided by specialists in surface characterization of materials: metals, polymers, ceramics, biologics,...in macroscopic and colloidal dimensions.



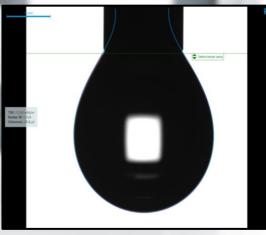
Determination of the surface tension of a solid by means of contact angles using the sessile drop technique



Determination of the surface tension of a liquid by means of the pendant drop method







...and more

Measurements with temperature (5 to 90°C) and humidity controlled



Humidity chamber

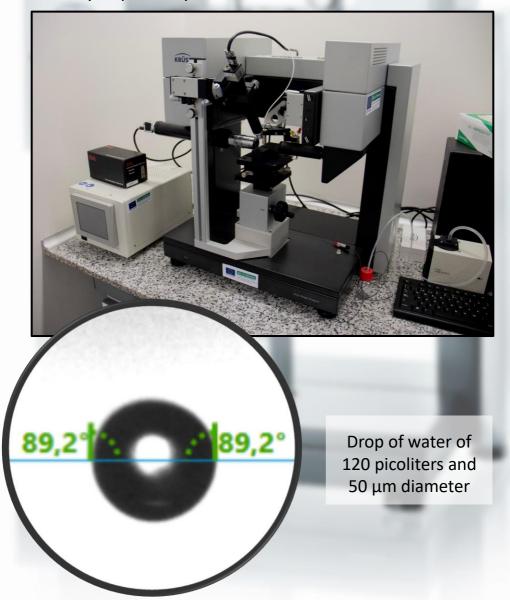


Tilt measurements up to 90° for measuring advancing, receding and roll-off angles





Measurements with picoliter volumes to obtain surface tension and hydrophobicity of materials at micrometer scales



Technical specifications

The system allows the determination of contact angles of deposited drops and captive bubbles in the range from 0 to 180°, with a resolution of 0.01° and an accuracy of 0.1°. The tilting table allows the evaluation of advancing, receding and roll-off angles with a resolution of 0.1°. Thanks to the pendant drop technique, it is possible to determine surface and interfacial tensions, with a resolution of 0.01 mN/m. The DSA100M option is available, which allows software dosing of drops as small as 20 pL and measurement of contact angles thanks to a 3400 fps high-speed camera.



Rates

Service	UEX/CIBER	Public Organizations	Private Companies
Microdroplet contact angles	15 €/hour	35 €/hour	60 €/hour
Picodroplet contact angles	20 €/hour	45 €/hour	80 €/hour
Technician time	20 €/hour	50 €/hour	80 €/hour
Data processing and reporting	10 €/hour	30 €/hour	60 €/hour





Centro de Investigación Biomédica en Red Bioingeniería, Biomateriales y Nanomedicina



Consejería de Economía, Ciencia y Agenda Digital





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