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SITE100

Spinning Drop Tensiometer

The KRÜSS Interface Tester



High quality for low tensions: SITE100

- Measurement of interfacial tensions from 10^{-6} to 10 mN/m (optional 10^{-6} to 50 mN/m)
- Integrated high resolution camera for precise drop size analysis
- Integrated temperature measurement
- Flexible camera alignment and powerful LED illumination for optimal images
- Ergonomic software design with storable images and calibration data, possible subsequent image analysis and easy report generation

KRÜSS

Interfacial specialist for emulsions

Microemulsions are gaining ground wherever organic phases are to be mobilized by aqueous ones: for the bioavailability of drugs, enhanced oil recovery, restoration of water, solvent-free degreasing or also for emulsion polymerization. The Tensiometer SITE100 from KRÜSS helps in the development of mini-emulsions and microemulsions



as a specialist for extremely low interfacial tensions.

Thanks to 25 year's experience with spinning drop tensiometers, KRÜSS has been able to improve operating comfort even further: illumination and speed can be set by manual controllers or also via the software.

The instrument is equipped with a high-resolution USB camera and interchangeable lenses for various measuring ranges. Speeds of up to 20000 rpm can be preset with great accuracy. Interfacial tensions down to 10^{-6} mN/m can be reliably measured. The control and measurement of the temperature, which is important for emulsion properties, is just as accurate.

In addition to single measurements by mouse-click, the software also allows time-controlled series measurements. It saves the

results in a comfortable database, together with their measuring parameters and drop images as well as the calibration data for the image scale. The plotting function plots the interfacial tension against time or the internally measured temperature. A final mouse-click, and the results are presented in a well-laid-out report.



Applications



- Development of emulsions
- Enhanced oil recovery
- Bioavailability of drugs
- Emulsifier development
- Adsorption properties at phase boundaries



Technical Data

Measuring range:	10^{-6} - 10 mN/m 10^{-6} - 50 mN/m (optional)
Rotation speed:	up to 15000 rpm up to 20000 rpm (optional)
Capillary diameter:	3.5 mm
Temperature range:	0 to 100°C
Magnifications:	3×
Dimension:	30×45×30 cm
Weight:	15 kg
Power supply:	100 to 240 V

Accessories

- 5× magnification for very low interfacial tension
- Small volume accessory
- Thermostat

Technical specifications are subject to change without notice



<http://www.kruss.de>

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