





Interfacial Tension Between Oil and Water

Weshine® Surface
Tensiometer for measuring
Interfacial Tension Between
Oil and Water with CE
certificate, high quality and
accuracy, Invented and
produced according to
national standards, complete
electric testing solution
available. Contact us for more
details of Winding Resistance
Test of Transformer from
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www.weshinelectric.com







Tel:+86-312-3188565 E-mail:sale09@weshinelectric.com

Phone:+86-18731260588



Surface Tensiometerfor measuring Interfacial Tension Between 0il and Water

Surface tension is a measure of the coherence that exists at an interface. Liquid molecules attract each other. The interactions of molecules in a liquid object are balanced by equal attractive forces in all directions. Molecules at the surface of the liquid experience an imbalance and become more tightly attached to the molecules to which they are directly attached. This creates a "film" surface that makes it harder for the body to traverse the surface than if it were completely submerged. The same applies to the interface of two immiscible liquids such as oil and water. In this case, the term "interface voltage" is used. Surface tension and surface tension have several different units and are usually measured at the Dain/cm (mN/m) level.

Weshine® offers a range of Surface Tensiometer (VS-9804 series) for measuring surface tension of oil in water widely used for educational, research, process control and quality control purposes to measure surface tension.

Weshine® Surface Tensiometer for measuring Interfacial Tension Between Oil and Water Parameter (Specification)

PRODUCT INFORMATION							
Product Name	Interfacial Tension Between Oil and Water						
Test Range	0 to 200 mN/m	Accuracy	1%				
Resolution	0.1 mN/m	Repeatability	0.3%				
Test Method	Du Noüy ring method						
	* Wilhelmy plate method						
Power	20 W	Power Supply	AC220 V				
Standards	GB/T6541	Certificates	CE; EMC; LVD; ISO; IEC;				
Dimensions	210mm*300mm*370mm	Model Number	VS-9804				

The testing method of Weshine® Surface Tensiometer for measuring Interfacial Tension Between Oil and Water is:

Du Noüy ring



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The Du Noüy ring method uses a platinum ring as a probe. The platinum ring is placed on the measuring hook attached to the high-sensitivity balance. Immerse the ring below the interface by moving the platform on which the liquid container is placed. After immersion, the height of the platform is lowered, the ring is pulled across the interface, and the liquid meniscus is pulled with it. If the container is lowered further, the meniscus will come off the ring. Before this event, the volume of the meniscus (and thus the force applied) passes through a maximum and begins to decline until it actually breaks. The calculation of the surface or interfacial tension is based on the measurement of the maximum force and the circumference of the ring.



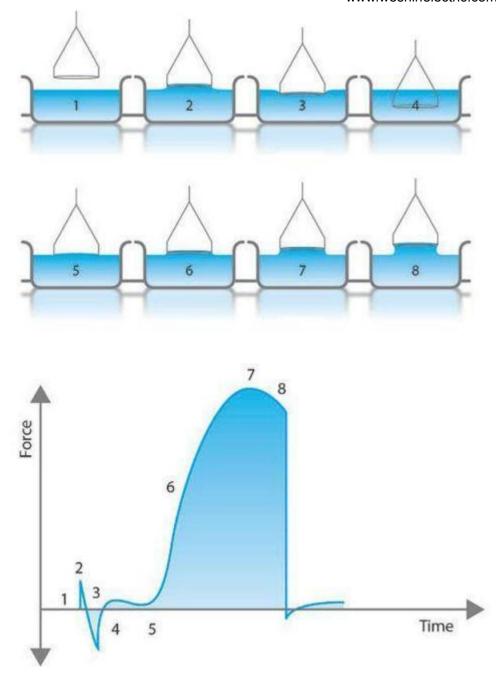


Figure 1. The different phases of the experiment can be determined from the force versus time curves:

1) At the beginning, the ring is above the interface and the force is zero. 2) At the contact interface of the ring, there is a slight normal force due to the adhesion between the ring and the surface. 3) The ring must be pushed across the interface (there is a small negative force due to surface tension). 4) The ring breaks through the interface, and a small normal force is measured due to the support line of the ring. 5) The measured force begins to increase as it is lifted through the interface. 6) The force keeps increasing. 7) Maximum force is reached. 8) After reaching the



maximum, the force decreases slightly until the sheet breaks, or pushes the ring back below the surface.

Selections

Weshine has 8 years of experience specifically for deal with complete range of Electrical Equipment. At present, Weshine has invented various Surface Tensiometer for measuring Interfacial Tension Between Oil and Water as shown as form:

ORDERING INFORMATION FOR SURFACE TENSIOMETER FOR MEASURING Interfacial Tension Between Oil and Water							
(mm)	(kg)						
VS-9804A	2 to 200	0.1% rdg	V		185 x 260 x 360	6	
VS-9804B	0 to 200	0.1% rdg	V		200 x 300 x 330	6	
VS-9804C	0 to 1000	0.1 mN/m	V	V	200 x 330 x 420	8	
VS-9804D	0 to 1000	0.01 mN/m	V	٧	200 x 330 x 420	8	
VS-9804E	0 to 1000	0.001 mN/m	V	٧	200 x 330 x 420	8	

Based on Supply Chain issues: Please contact your preferred Authorized Weshine Distributor for current pricing and lead times.

Quality Certificates

We always believe that all the success of our company is directly related to the quality of the products we provide. Surface Tensiometer for measuring Interfacial Tension Between Oil and Water meet the highest quality requirements specified in ISO9001, ISO14000:14001 guidelines and our strict quality control system.





Shipment



For further information on Weshine's Service Solutions, contact our 24/7 online sales representative to get quotes from Weshine.

Contact us

FEEL FREE TO MAKE A PHONE CALL:400 996 1868	OR E-MAIL TO: info@weishengelectric.com		
SALES OFFICE	CONTACT OFFICE		
Weshine Limited 602, Building 3, Diangu	T. 0312 3188565		
Technology Center, No. 3088, Lekai North Street	E. bdweisheng@weishengelectric.com		
W/app: +86 1873 1260 588			
E. info@weishengelectric.com	AFTER-SALES SERVICE		
sale01@weishengelectric.com	T. +86 157 1252 6062		