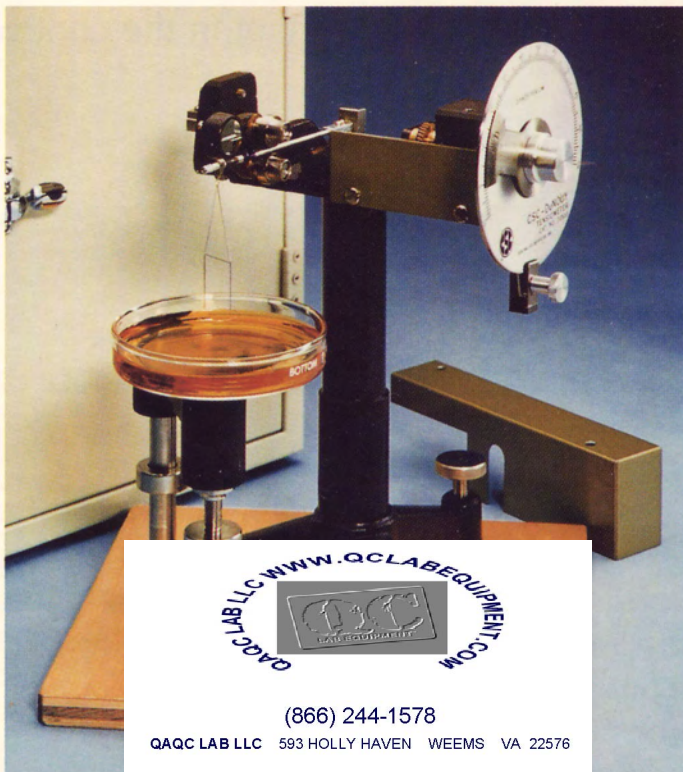




# CSC DuNOUY TENSIO METER

THE PROVEN INSTRUMENT FOR MEASURING SURFACE TENSION  
—QUICKLY— 15-30 SECONDS! IDEAL FOR CHECKING LIQUIDS,  
INCLUDING OILS, DETERGENTS, SERUMS, COLLOIDAL SUSPEN-  
SIONS, CHEMICALS, AND OTHER PRODUCTS.



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QAQC LAB LLC 593 HOLLY HAVEN WEEMS VA 22576

CSC DuNOUY PRECISION TENSIO METER

## FEATURING

### RAPID MEASUREMENT

Ring method allows readings to be made in 15-30 seconds. (Ideal for colloidal suspensions which exhibit rapid changes in surface tension.)

### DIRECT READING

Circular scale is graduated in dynes/cm eliminating the need for mathematical calculations.

### REPRODUCIBLE RESULTS

Improved technique allows accurate readings to be reproduced within  $\pm 0.05$  dyne/cm.

### PORTABILITY

Compact unit comes with a carrying case for easy transport.

### STABILITY

Unit is mounted on a cast tripod support with convenient leveling screws.

## THE CSC DuNOUY TENSIO METER IS AVAILABLE IN TWO MODELS

### CSC PRECISION DuNOUY TENSIO METER (upward direction)

This model tensiometer provides precise readings of upward interfacial and surface tensions by the ring method to values reproducible within  $\pm 0.05$  dyne/cm. This instrument is specified for determining interfacial tension of oil against water by the ring method in ASTM Method D971 and solutions of surface-active agents in ASTM Method D1331. It is also specified for testing synthetic rubber lattices in ASTM Method D1417 and determining the surface tension of industrial water and industrial wastewater in ASTM Method D1590.

### CSC INTERFACIAL DuNOUY TENSIO METER (dual direction)

Where the Precision Tensiometer measures only the upward pull on the ring, the Interfacial Tensiometer is designed to measure both upward and downward forces on the ring. Graduated dial reads in both directions from zero and a double vernier is provided. The two scales and corresponding verniers have graduations and figures of different colors to indicate whether the measured force is upward or downward.

Both instruments can be quickly adjusted and calibrated. They are supplied completely assembled and are furnished with three extra torsion wires and a 6-cm platinum-iridium ring.

# APPLICATIONS OF SURFACE AND INTERFACIAL TENSIONS

Surface and interfacial tension measurements are extremely important in the control and improvement of:

**absorption**  
**emulsification**  
**osmotic pressure**

**cataphoresis**  
**evaporation**  
**solubility**

**condensation**  
**miscibility**

Industries using dye solutions, producing detergents, clarifying liquids, or separating ores by the flotation process can obtain greater uniformity and efficiency through close

control of surface tension of the process liquid. A close relationship exists between interfacial tensions of oil-liquid systems and the lubricating value of the oil. Another major use is determining the sludging condition within a transformer, thereby eliminating costly repairs.



CSC DuNOUY INTERFACIAL TENSIOMETER



PLATINUM-IRIDIUM 6cm RING

**CSC SCIENTIFIC** also manufactures laboratory instruments for the analysis of:

- PARTICLE SIZE
- PRODUCT VISCOSITY/CONSISTENCY
- MOISTURE CONTENT
- RELATIVE HUMIDITY