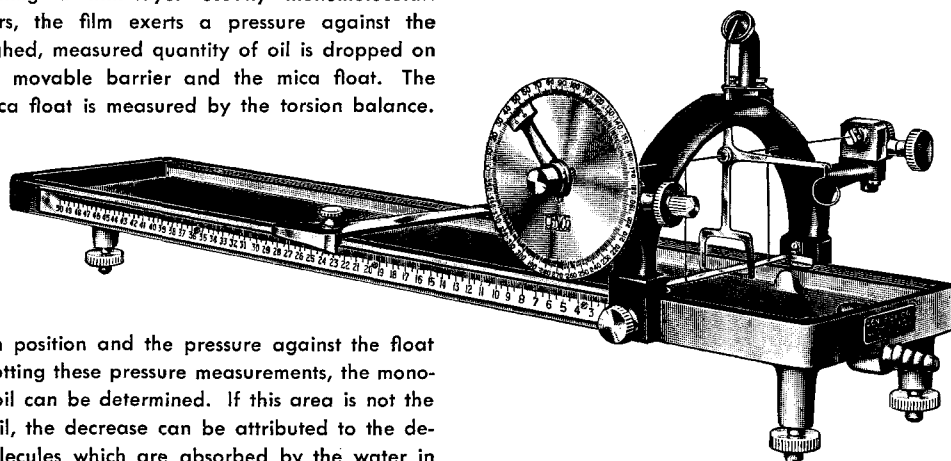


SURFACE AND INTERFACE FILMS

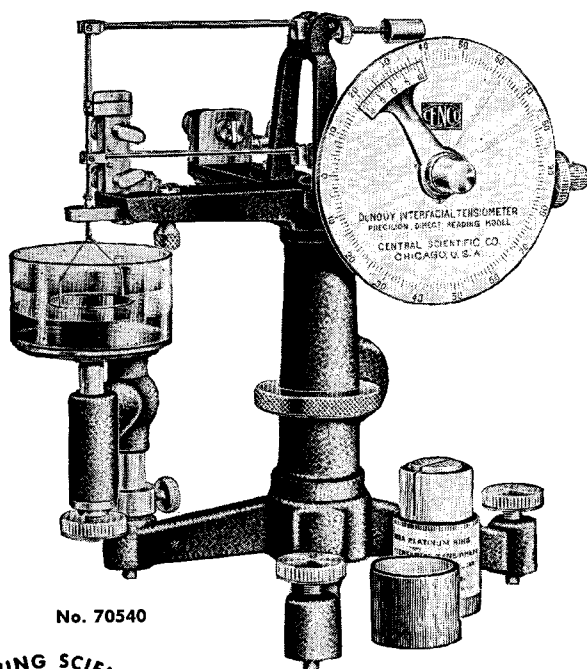
THE HYDROPHIL BALANCE

Hydrophil Balance measurements reveal oxidation, development of polar molecules and other characteristics of oils and film forming liquids. When oil or a similar liquid is dropped on water, it spreads over the surface, forming a thin layer usually monomolecular. Confined within barriers, the film exerts a pressure against the barriers. In use, a weighed, measured quantity of oil is dropped on the water between the movable barrier and the mica float. The pressure against the mica float is measured by the torsion balance.



No. 70551

The barrier is shifted in position and the pressure against the float again measured. By plotting these pressure measurements, the monomolecular area of the oil can be determined. If this area is not the same as that of pure oil, the decrease can be attributed to the development of polar molecules which are absorbed by the water in the tray. Similarly, the extent of the development of polar molecules indicates the condition of the liquid.



No. 70540

THE CENCO-du NOUY INTERFACIAL TENSIO METER

Interfacial tensions between non-mixing liquids and surface tensions of liquids are measured easily and accurately with this instrument. Interface and surface tension measurements are extremely important in pharmaceutical, biological, petroleum and other researches and control. The Cenco instrument meets the requirements of ASTM Tentative specification D971-48T, Interfacial Tension of Oil Against Water by the Ring Method.

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