

ULTRASOUND CAPILLARY POTENTIAL  
IN DIELECTRIC LIQUIDS

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S u m m a r y

The properties of the ultrasound capillary effect in viscous dielectric liquids (silicon oil) are investigated. It is shown that the real cavitation process under a capillary cut cannot be excited, but a stationary two-phase flow in the capillary is formed. This phenomenon correlates with the arising of the negative electrical potential in the capillary channel. It is experimentally shown that this potential is caused by the translation motion of microbubbles near the capillary cut in the ultrasonic field.