## Force Due to Surface Tension.

If a body of weight W is placed on the liquid surface, whose surface tension is T. If F is the minimum force required to pull it away from the water then value of F for different bodies can be calculated by the following table.

Body	Figure	Force
Needle (Length = I )		F = 2I T + W
Hollow disc (Inner radius = r1 Outer radius = r2)	F	F = 2π (r1 + r2)T + W
Thin ring (Radius = $\vec{r}$ )		$F = 2\pi (r + r)T + W$ $F = 4\pi rT + W$

