

$$\left. \begin{aligned} V_T &= 15 \text{ cm}^3 \\ \phi &= 6 \text{ mm} \end{aligned} \right\}$$

$$V = A \cdot h_T$$

$$h_T = \frac{V}{A} = \frac{15 \text{ cm}^3}{\frac{\pi \cdot D^2}{4}} = \frac{15 \text{ cm}^3 \left[\frac{1 \text{ m}}{1000 \text{ mm}} \right]^3}{\frac{\pi (6)^2}{4} \text{ mm}^2} \left[\frac{1 \text{ m}}{1000 \text{ mm}} \right]^2$$

$$h_T = 0.531 \text{ m}$$

Sumergido en agua

$$F_b = W$$

$$\cancel{V_d} \gamma_w = \cancel{V_H} \cdot \gamma_H$$

$$\gamma_w = \gamma_H$$

Sumergido en HNO_3

$$F_b = W$$

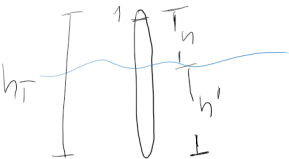
$$V_d' \gamma_{\text{HNO}_3} = \gamma_H V_H$$

$$V_d' \gamma_{\text{HNO}_3} = \gamma_w V_H$$

$$V_d' \cdot 1.5 \gamma_w = \gamma_w V_H$$

$$V_d' = \frac{V_H}{1.5}$$

$$A \cdot h' = \frac{A \cdot h_T}{1.5} \Rightarrow h' = \frac{h_T}{1.5} = 0.354 \text{ m}$$



$$h_T = h + h'$$

$$h = h_T - h' = 0.531 - 0.354 \text{ m}$$

$$h = 0.177 \text{ m}$$