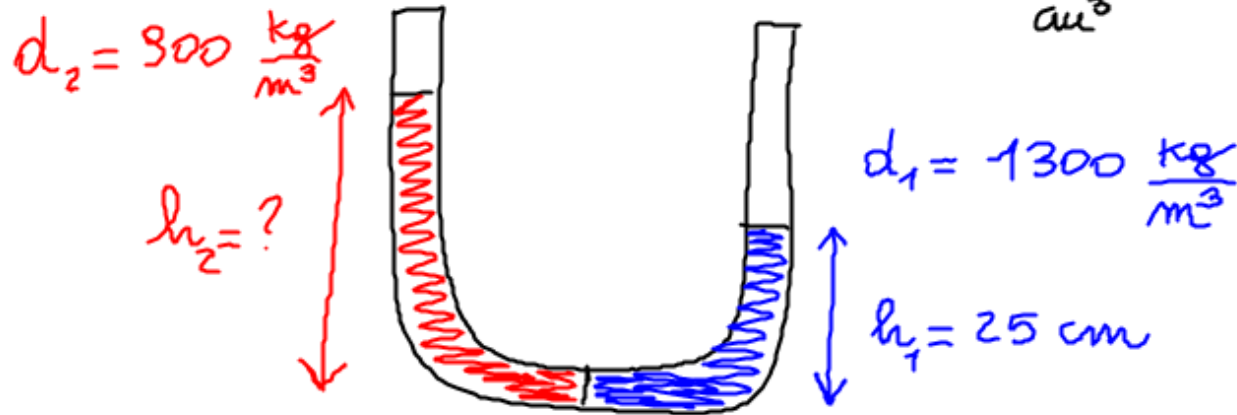


PAG. 128 N 23

$$1 \frac{\text{kg}}{\text{m}^3} = \frac{1000}{1000000} \frac{\text{g}}{\text{cm}^3} = 10^{-3} \frac{\text{g}}{\text{cm}^3}$$

$$1 \frac{\text{g}}{\text{cm}^3} = 10^3 \frac{\text{kg}}{\text{m}^3}$$



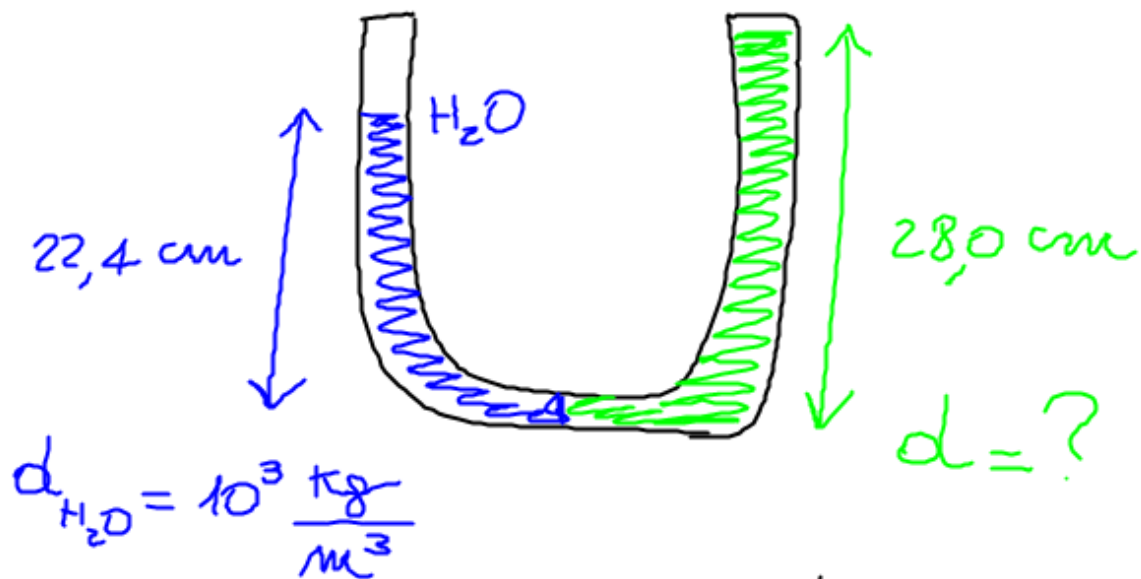
LESSE DI STEVINO  $\Rightarrow d_2 h_2 = d_1 h_1$

$$p = d h g$$

$$\cancel{d_1 h_1 g} = \cancel{d_2 h_2 g}$$

$$h_2 = \frac{d_1 h_1}{d_2} = \frac{(1300 \frac{\text{kg}}{\text{m}^3})(25 \text{ cm})}{900 \frac{\text{kg}}{\text{m}^3}} \approx 36 \text{ cm}$$

N 24

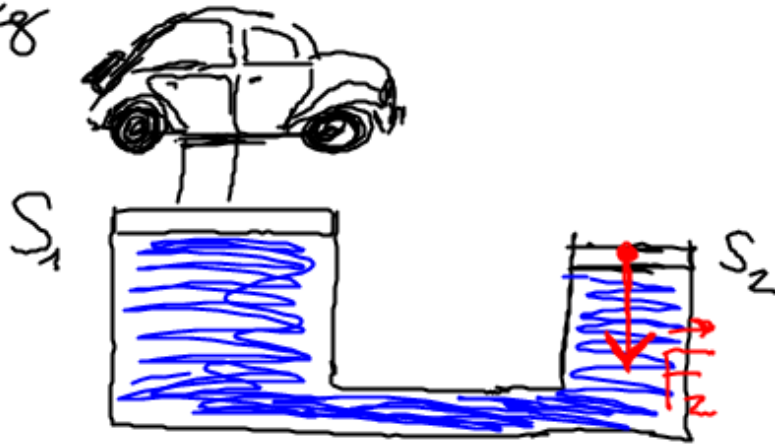


$$d = \frac{d_{H_2O} \cdot (22,4 \text{ cm})}{28,0 \text{ cm}} = 800 \frac{\text{kg}}{\text{m}^3}$$

OLIO DI  
PARAFFINA

N 31

$$m_1 = 3400 \text{ kg}$$



$$\frac{S_1}{S_2} = 250$$

$$F_2 = ?$$

PER  
PASCAL

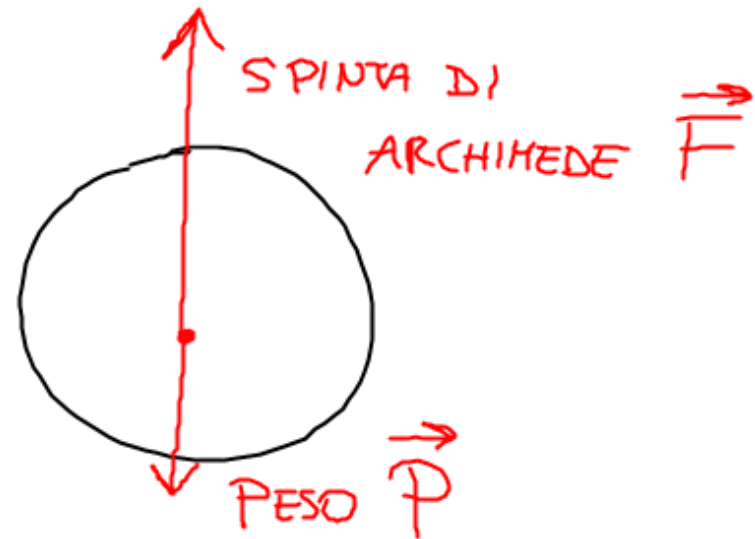
$$p = \frac{F_1}{S_1} = \frac{F_2}{S_2} \Rightarrow F_2 = F_1 \cdot \frac{S_2}{S_1} =$$
$$= m_1 g \cdot \frac{1}{\frac{S_1}{S_2}} =$$
$$= (3400 \text{ kg}) \left( 9,8 \frac{\text{N}}{\text{kg}} \right) \frac{1}{250} = 133 \text{ N} \quad \frac{S_1}{S_2}$$

41

$$V = 500 \text{ m}^3$$

$$\rho_{\text{ARIA}} = 1,29 \frac{\text{kg}}{\text{m}^3}$$

$$\rho_{\text{He}} = 0,18 \frac{\text{kg}}{\text{m}^3}$$



$$F = \rho_{\text{ARIA}} g V$$

$$P = \rho_{\text{He}} g V$$

$$\text{RISULTANTE} = F - P =$$

$$= (\rho_{\text{ARIA}} - \rho_{\text{He}}) g V =$$

$$= \left( 1,29 \frac{\text{kg}}{\text{m}^3} - 0,18 \frac{\text{kg}}{\text{m}^3} \right) \left( 9,8 \frac{\text{N}}{\text{kg}} \right) (500 \text{ m}^3) =$$

$$= 5439 \text{ N} \approx \boxed{5,4 \times 10^3 \text{ N}}$$