

Static fluid answers

$$1. \quad S = S_w \frac{h-d}{h} \quad 600 \frac{\text{kg}}{\text{m}^3}$$

$$2. \quad S = 0.2 S_w$$

$$P = 0.8 S_w g V = 19.6 \text{ N}$$

$$a = 4g$$

$$3. \quad S = 4 \times 10^3 \frac{\text{kg}}{\text{m}^3}$$

$$4. \quad \Delta P = \frac{S_A + S_B}{2} g H$$