$F_{V2} = 21\,N$

$V_T = 3\,dm^3 = 0{,}003\,m^3$

$g = 10\ N/kg$

$\rho_k = ?\ (kg/m^3)$

$F_{V2} = V_T \cdot \rho_k \cdot g$

$21 = 0{,}003 \cdot \rho_k \cdot 10$

$\frac{21}{0{,}03} = \rho_k = 700\ kg/m^3$

Kapalina má hustotu $700\ kg/m^3$.