Answer on Question #69131, Physics / Other

Convert 25 g/cm³ to kg/m³

Solution:

1 g/cm³ is equal to 1000 kilogram/cubic meter.

Explanation:

$$1\ g\ = \frac{1}{1000}\ kg$$

$$1\ cm = \frac{1}{100}\ m$$

$$1\ cm^3 = \frac{1}{1000000}\ m^3$$

Now,

$$\frac{25\ g}{1\ cm^3} = \frac{25}{1000} \cdot \frac{1}{\frac{1}{1000000}\ m^3} = \frac{25}{1000} \cdot 1000000 = 25000\ kg/m^3$$

Answer: $25000\ kg/m^3$