

- 15** In a large container in an oil refinery, three oils of different densities are mixed. No chemical activity occurs.

The mixture consists of:

1200 kg of oil of density  $1100 \text{ kg m}^{-3}$

1500 kg of oil of density  $860 \text{ kg m}^{-3}$

4000 kg of oil of density  $910 \text{ kg m}^{-3}$ .

What is the density of the mixture?

**A**  $927 \text{ kg m}^{-3}$

**B**  $933 \text{ kg m}^{-3}$

**C**  $957 \text{ kg m}^{-3}$

**D**  $1045 \text{ kg m}^{-3}$