

- 13 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 kg m^{-3} ,

1500 kg of oil of density 860 kg m^{-3} ,

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

What is the density of the mixture?

A 927 kg m^{-3}

B 957 kg m^{-3}

C 1010 kg m^{-3}

D 1080 kg m^{-3}

- 14 Two coplanar forces act on the rim of a wheel. The forces are equal in magnitude.