

liquid boiling at its boiling point?

A) The average kinetic energy of the liquid becomes rapid, when the liquid is boiling at its boiling point.

15. What do you understand by thermal expansion of a substance?

A) The expansion of a substance when heated is called thermal expansion.

18. State three factors on which depend the linear expansion of a metal rod on heating.

A) The three factors on which depend the linear expansion are: i) Original length of the rod.

ii) Increase in temp

iii) Material of Rod the Rod.

19. Two iron rods - one 10 m long and the other 5 m long, are heated to the same rise in temp. Which rod will expand more?

A) The one 10 m long iron rod will expand more.

24. Explain the following:

a) The telephone wires break in winter.

In winter, the telephone wires contract as they are made up of copper. If it

contracts much it breaks.
b) Iron rims are heated before they are fixed on the wooden wheels.
Iron rims are heated so, it can expand and the ~~the~~ wooden wheels can be fixed.

c) Gaps are left between the successive rails on a railway track.
Gaps are left between the ~~spaces~~ successive rails on a railway track so, in summer, it can expand and move sideways.

27) A cubical metal solid block is heated - how will its volume change?

A) It will increase.

32) Which of the following will expand more when heated to the same temperature?
(a) Solid (b) liquid or (c) gas?

A) Gases