

# Physics

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## (Chapter 10) (Thermal Properties of Matter) (Exercises) (Class 11)

### Answer 10.7:

The given temperature,  $T = 27^\circ\text{C}$  can be written in Kelvin as:  $27 + 273 = 300\text{ K}$

Outer diameter of the steel shaft at  $T$ ,  $d_1 = 8.70\text{ cm}$

Diameter of the central hole in the wheel at  $T$ ,  $d_2 = 8.69\text{ cm}$

Coefficient of linear expansion of steel,  $\alpha_{\text{steel}} = 1.20 \times 10^{-5}\text{ K}^{-1}$

After the shaft is cooled using 'dry ice', its temperature becomes  $T_1$ .

The wheel will slip on the shaft, if the change in diameter,  $\Delta d = 8.69 - 8.70 = -0.01\text{ cm}$

Temperature  $T_1$ , can be calculated from the relation:  $\Delta d = d_1 \alpha_{\text{steel}} (T_1 - T)$

$= 8.70 \times 1.20 \times 10^{-5} (T_1 - 300) \Rightarrow (T_1 - 300) = 95.78$

$\therefore T_1 = 204.21\text{ K} = 204.21 - 273.16 = -68.95^\circ\text{C}$

Therefore, the wheel will slip on the shaft when the temperature of the shaft is  $-69^\circ\text{C}$ .

### Question 10.8:

A hole is drilled in a copper sheet. The diameter of the hole is  $4.24\text{ cm}$  at  $27.0^\circ\text{C}$ . What is the change in the diameter of the hole when the sheet is heated to  $227^\circ\text{C}$ ? Coefficient of linear expansion of copper  $= 1.70 \times 10^{-5}\text{ K}^{-1}$ .

### Answer 10.8:

Initial temperature,  $T_1 = 27.0^\circ\text{C}$  and Diameter of the hole at  $T_1$ ,  $d_1 = 4.24\text{ cm}$

Final temperature,  $T_2 = 227^\circ\text{C}$  and Diameter of the hole at  $T_2 = d_2$

Co-efficient of linear expansion of copper,  $\alpha_{\text{Cu}} = 1.70 \times 10^{-5}\text{ K}^{-1}$

For co-efficient of superficial expansion  $\beta$ , and change in temperature  $\Delta T$ , we have the relation:

$$\frac{\text{Change in area } (\Delta A)}{\text{Original area } (A)} = \beta \Delta T \Rightarrow \frac{\left(\pi \frac{d_2^2}{4} - \pi \frac{d_1^2}{4}\right)}{\left(\pi \frac{d_1^2}{4}\right)} = \frac{\Delta A}{A}$$

$$\therefore \frac{\Delta A}{A} = \frac{d_2^2 - d_1^2}{d_1^2}$$

But  $\beta = 2\alpha$

$$\therefore \frac{d_2^2 - d_1^2}{d_1^2} = 2\alpha \Delta T$$

$$\frac{d_2^2}{d_1^2} - 1 = 2\alpha [T_2 - T_1] \Rightarrow \frac{d_2^2}{(4.24)^2} = 2 \times 1.7 \times 10^{-5} (227 - 27) + 1$$

$$\Rightarrow d_2^2 = 17.98 \times 1.0068 = 18.1$$

$$\therefore d_2 = 4.2544\text{ cm}$$

Change in diameter  $= d_2 - d_1 = 4.2544 - 4.24 = 0.0144\text{ cm}$

Hence, the diameter increases by  $1.44 \times 10^{-2}\text{ cm}$ .

### Question 10.9:

A brass wire  $1.8\text{ m}$  long at  $27^\circ\text{C}$  is held taut with little tension between two rigid supports. If the wire is cooled to a temperature of  $-39^\circ\text{C}$ , what is the tension developed in the wire, if its diameter is  $2.0\text{ mm}$ ? Co-efficient of linear expansion of brass  $= 2.0 \times 10^{-5}\text{ K}^{-1}$ ; Young's modulus of brass  $= 0.91 \times 10^{11}\text{ Pa}$ .

### Answer 10.9:

Initial temperature,  $T_1 = 27^\circ\text{C}$

Length of the brass wire at  $T_1$ ,  $l = 1.8\text{ m}$

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**Chao Zhang**



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