

INSULATOR FORMULA SHEET

1. $C = 2 \pi r$

2. $P = 2l + 2w$

3. $P = a + b + c + d$

4. $P = a + b + c$

5. $A = \pi r^2$

6. $A = bh$

7. $A = 2(wh + lw + hl)$

8. $A = 4 \pi r^2$

9. $A = \frac{1}{2}h(a + b)$

10. $A = H \times \frac{L_1 + L_2}{2}$

11. $A = \frac{1}{2}bh$

12. $A = \frac{W \times H}{2}$

13. **Lateral area** = $\pi r s$

14. **lateral area** = $2 \pi r h$

15. **SA** = $\pi r s + \pi r^2$

16. **SA** = $2 \pi r h + 2 \pi r^2$

17. **SA** = $4 \pi r^2$

18. $V = \frac{1}{3} \pi r^2 h$

19. $V = \pi r^2 h$

20. $V = L \times W \times H$

21. $V = \frac{4}{3} \pi r^3$

22. $\frac{\left[\left(CLR \pm \frac{1}{2} OD \right) \times 1.57 \right]}{\text{no.of mitres}}$

23. $\frac{OD}{ID} \times ILS$

24. $\frac{ID}{OD} \times OLS$