



Steel Plate

- Formula: $\text{length(m)} \times \text{width(m)} \times \text{thickness(mm)} \times 7.85$
- E.g: 6m (length) $\times$ 1.51m (width) $\times$ 9.75mm (thickness)
- Calculation: $6 \times 1.51 \times 9.75 \times 7.85 = 693.43\text{kg}$



Steel Tube

- Formula: $(\text{OD-wall thickness}) \times \text{wall thickness(mm)} \times \text{length(m)} \times 0.02466$
- E.g: 114mm(OD) $\times$ 4mm(wall thickness) $\times$ 6m(length)
- Calculation: $(114-4) \times 4 \times 6 \times 0.02466 = 65.102\text{kg}$



Steel Rod

- Formula: $\text{dia. (mm)} \times \text{dia. (mm)} \times \text{length(m)} \times 0.00617$
- E.g: $\Phi 20\text{mm}$ (dia.) $\times$ 6m (length)
- Calculation: $20 \times 20 \times 6 \times 0.00617 = 14.808\text{kg}$



Square Steel

- Formula: $\text{edge width(mm)} \times \text{edge width(mm)} \times \text{length(m)} \times 0.00785$
- E.g: 50mm (edge width) $\times$ 6m (length)
- Calculation: $50 \times 50 \times 6 \times 0.00785 = 117.75(\text{kg})$



Flat Steel

- Formula: $\text{edge width(mm)} \times \text{thickness(mm)} \times \text{length(m)} \times 0.00785$
- E.g: 50mm (edge width) $\times$ 5.0mm (thickness) $\times$ 6m (length)
- Calculation: $50 \times 5 \times 6 \times 0.00785 = 11.7.75(\text{kg})$



Hexagonal Steel

- Formula: $\text{edge-to-edge dia.} \times \text{edge-to-edge dia.} \times \text{length(m)} \times 0.0068$
- E.g: 50mm (dia.) $\times$ 6m (length)
- Calculation: $50 \times 50 \times 6 \times 0.0068 = 102(\text{kg})$



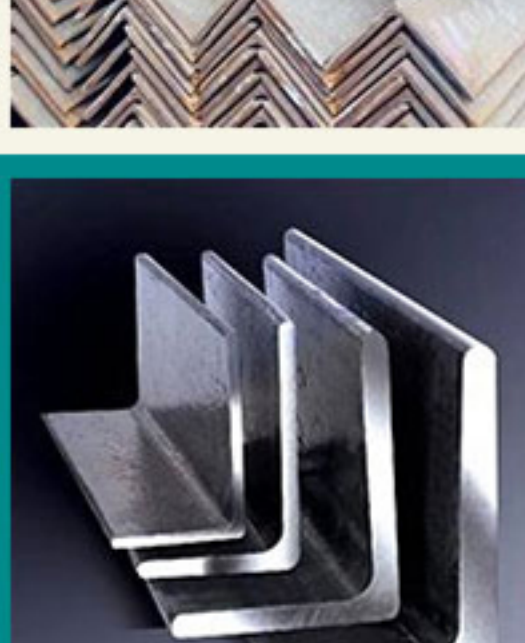
Rebar

- Formula: $\text{dia. mm} \times \text{dia. mm} \times \text{length(m)} \times 0.00617$
- E.g: $\Phi 20\text{mm}$ (dia.) $\times$ 12m (length)
- Calculation: $20 \times 20 \times 12 \times 0.00617 = 29.616\text{kg}$



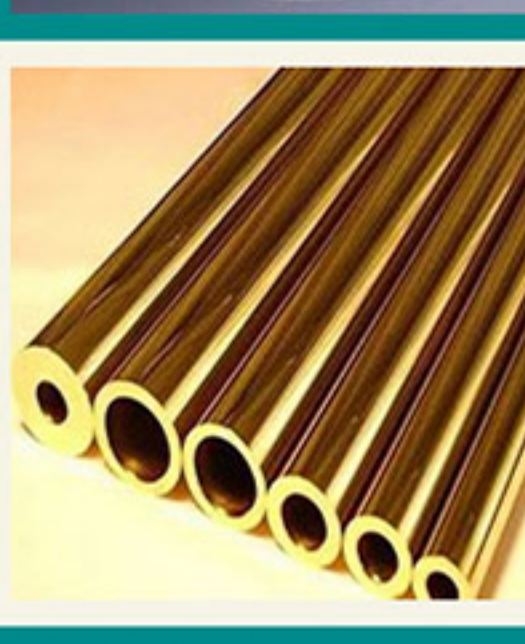
Flat Steel Tube

- Formula: $(\text{edge length} + \text{edge width}) \times 2 \times \text{thickness} \times \text{length(m)} \times 0.00785$
- E.g: 100mm $\times$ 50mm $\times$ 5mm (thickness) $\times$ 6m (length)
- Calculation: $(100+50) \times 2 \times 5 \times 6 \times 0.00785 = 70.65\text{kg}$



Rectangular Steel Tube

- Formula: $\text{Edge width(mm)} \times 4 \times \text{thickness} \times \text{length(m)} \times 0.00785$
- E.g: 50mm $\times$ 5mm (thickness) $\times$ 6m (length)
- Calculation: $50 \times 4 \times 5 \times 6 \times 0.00785 = 47.1\text{kg}$



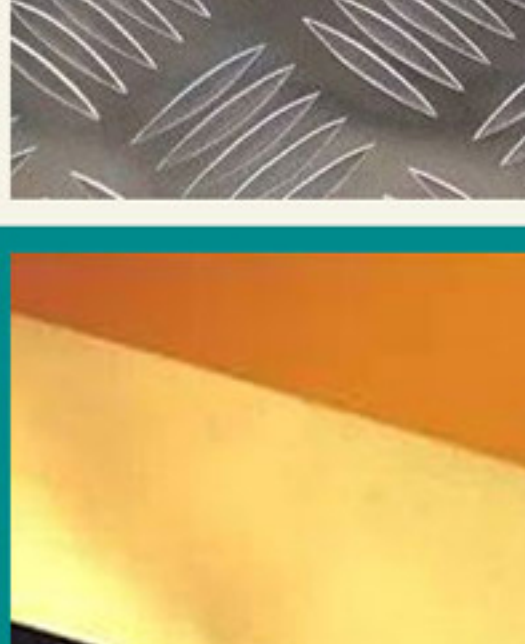
Equal-leg Angle Steel

- Formula: $(\text{edge width} \times 2 - \text{thickness}) \times \text{thickness} \times \text{length(m)} \times 0.00785$
- E.g: 50mm $\times$ 50mm $\times$ 5 (thickness) $\times$ 6m (length)
- Calculation: $(50 \times 2 - 5) \times 5 \times 6 \times 0.00785 = 22.37\text{kg}$



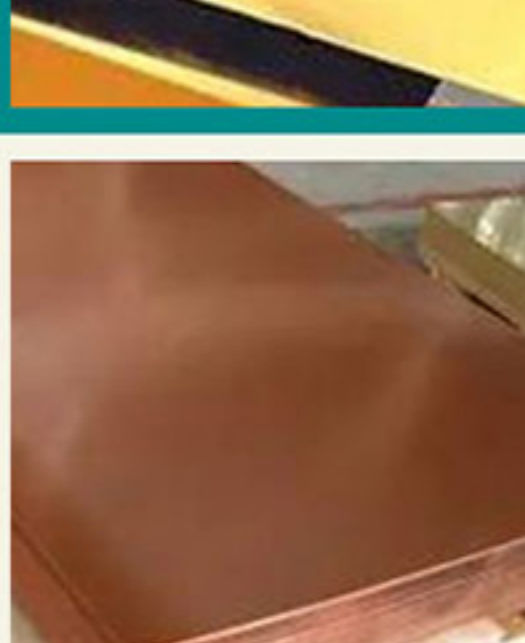
Unequal-leg Angle Steel

- Formula: $(\text{edge width} + \text{edge width} - \text{thickness}) \times \text{thickness} \times \text{length(m)} \times 0.0076$
- E.g: 100mm $\times$ 80mm $\times$ 8 (thickness) $\times$ 6m (length)
- Calculation: $(100+80-8) \times 8 \times 6 \times 0.0076 = 62.746\text{kg}$



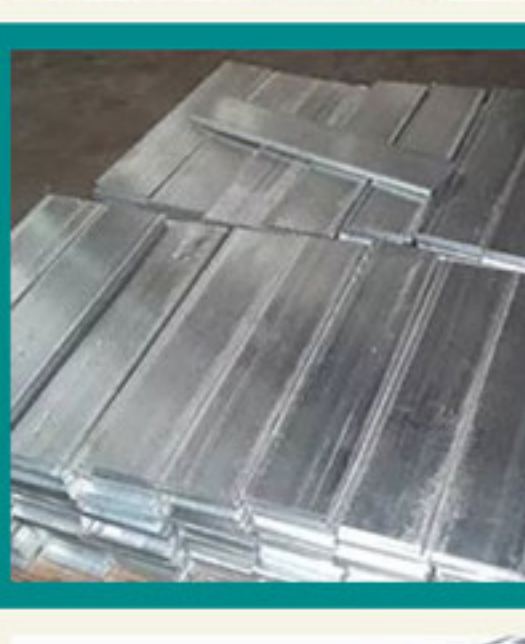
Brass Tube

- Formula: $(\text{OD-wall thickness}) \times \text{thickness(mm)} \times \text{length(m)} \times 0.0267$



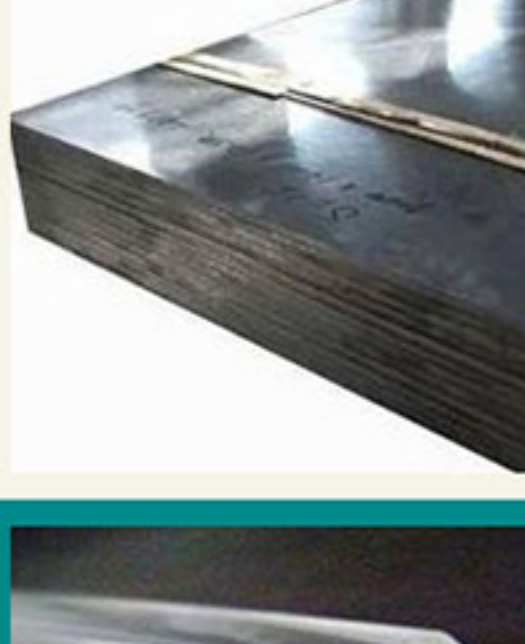
Copper Tube

- Formula: $(\text{OD-wall thickness}) \times \text{thickness(mm)} \times \text{length(m)} \times 0.02796$



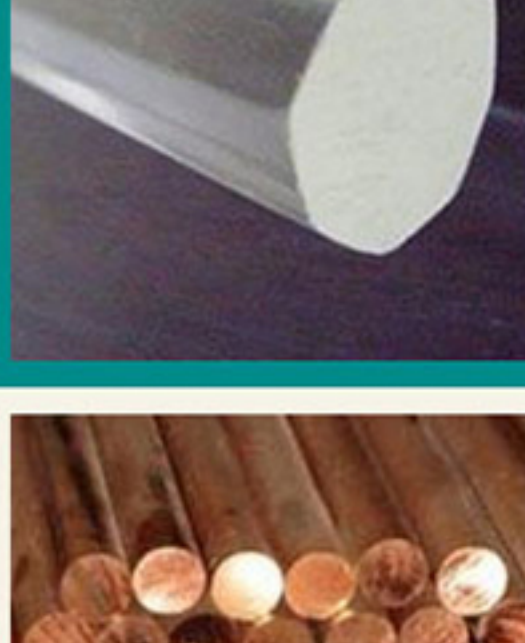
Aluminum Embossed Sheet

- Formula: $\text{length(m)} \times \text{width(mm)} \times \text{thickness (mm)} \times 0.00296$



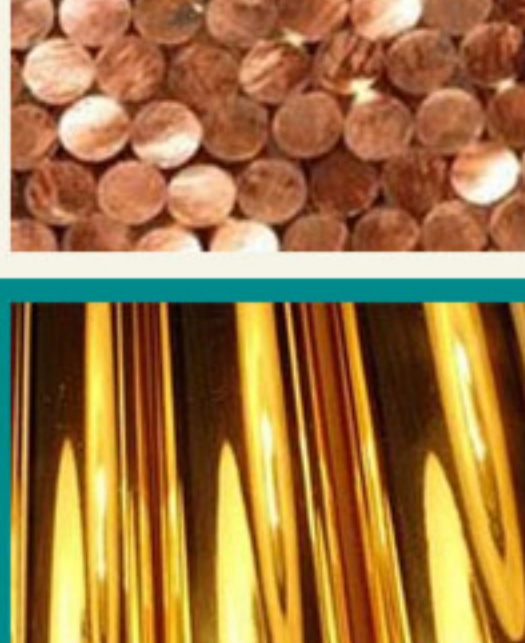
Brass Tube

- Formula: $\text{thickness(mm)} \times (\text{O.D-thickness}) \times \text{length(m)} \times 0.0267$



Copper Sheet

- Formula: $\text{length(m)} \times \text{width(mm)} \times \text{thickness(mm)} \times 0.0089$



Zinc Plate

- Formula: $\text{length(m)} \times \text{width(mm)} \times \text{thickness(mm)} \times 0.0072$



Lead Sheet

- Formula: $\text{length(m)} \times \text{width(mm)} \times \text{thickness(mm)} \times 0.01137$



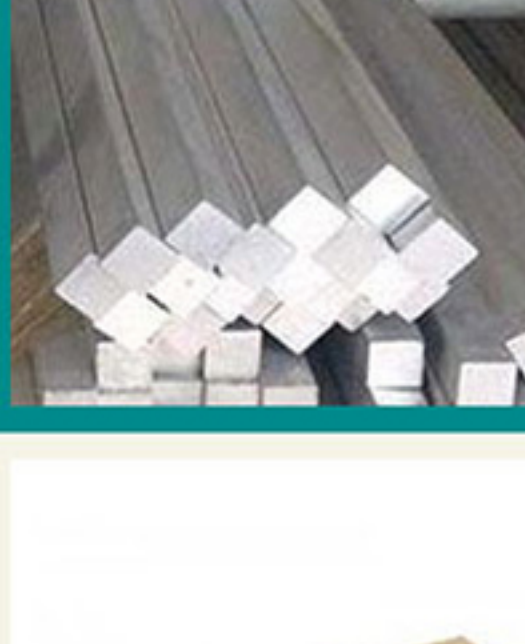
Octagonal Steel

- Formula: $\text{length(m)} \times \text{across width(mm)} \times \text{across width(mm)} \times 0.0065$



Copper Rod

- Formula: $\text{dia. (mm)} \times \text{dia. (mm)} \times \text{length(m)} \times 0.00698$



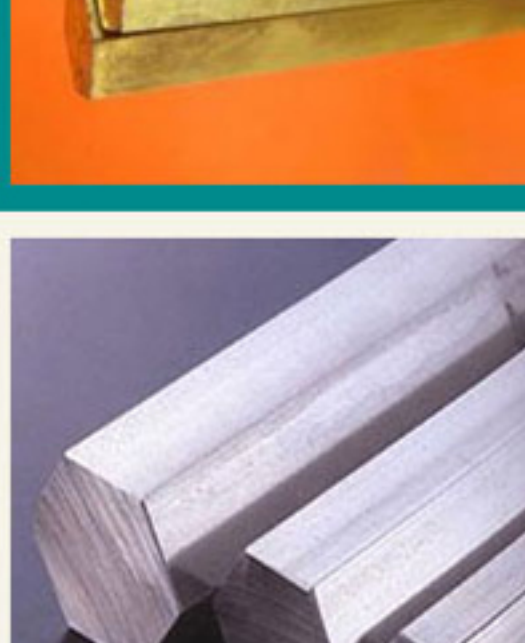
Brass Rod

- Formula: $\text{dia. (mm)} \times \text{dia. (mm)} \times \text{length(m)} \times 0.00668$



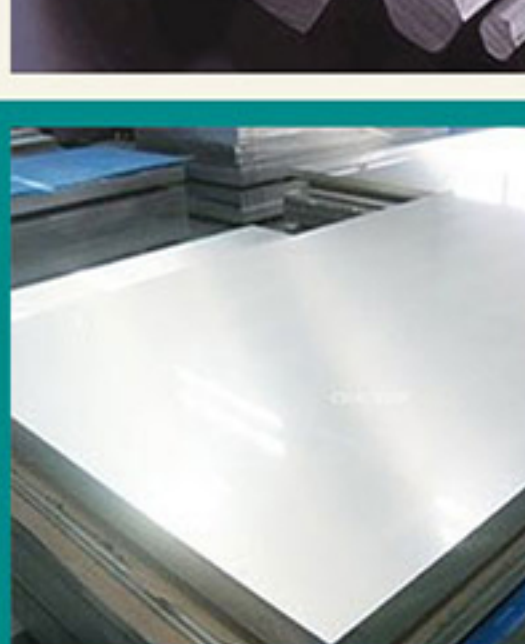
Aluminum Rod

- Formula: $\text{dia. (mm)} \times \text{dia. (mm)} \times \text{length(m)} \times 0.0022$



Square Copper Rod

- Formula: $\text{width(mm)} \times \text{width(mm)} \times \text{length(m)} \times 0.0089$



Square Brass Rod

- Formula: $\text{width(mm)} \times \text{width(mm)} \times \text{length(m)} \times 0.0085$



Square Aluminum Rod

- Formula: $\text{width(mm)} \times \text{width(mm)} \times \text{length(m)} \times 0.0028$



Hexagonal Copper Rod

- Formula: $\text{across width(mm)} \times \text{across width(mm)} \times \text{length(m)} \times 0.0077$

Hexagonal Brass Rod

- Formula: $\text{width(mm)} \times \text{across width(mm)} \times \text{length(m)} \times 0.00736$

Hexagonal Aluminum Rod

- Formula: $\text{across width(mm)} \times \text{across width(mm)} \times \text{length(m)} \times 0.00242$

Aluminum-Plate.jpg

- Formula: $\text{thickness(mm)} \times \text{width(mm)} \times \text{length(m)} \times 0.00171$

Aluminum Tube

- Formula: $\text{thickness(mm)} \times (\text{O.D(mm)-thickness(mm)}) \times \text{length(m)} \times 0.00879$