

Round Wire

$$\text{ft/lb} = .1061 \div ? \times D^2$$

Where ? = alloy density in lb/in³, and D = wire diameter in inches.

$$\text{m/kg} = 1273.24 \div ? \times D^2$$

Where ? = alloy density in gm/cm³, and D = wire diameter in mm.

Square or Rectangular Wire

$$\text{ft/lb} = .0833 \div ? (w \times t - .8584R^2)$$

Where ? = alloy density in lb/in³, w = wire length in inches, t = wire thickness in inches, and R = corner radius in inches.

$$\text{m/kg} = 1000 \div ? (w \times t - .8584R^2)$$

Where ? = alloy density in gm/cm³, w = wire length in mm, t = wire thickness in mm, and R = corner radius in mm.

Round Edge Flat Wire

$$\text{ft/lb} = .0833 \div ? \times w \times t \times C_f$$

Where ? = alloy density in lb/in³, w = wire width in inches, t = wire thickness in inches, and C_f = correction factor.

$$\text{m/kg} = 1000 \div ? \times w \times t \times C_f$$

Where ? = alloy density in gm/cm³, w = wire width in mm, t = wire thickness in mm, and C_f = correction factor.

Custom constructions are available, please contact the sales department

The information provided on this page is for reference purposes only.

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Correction Factor (C_f)

The following chart lists the correction factor (C_f) for the area loss from a true rectangle to the round edge.

WIDTH/THICKNESS RATIO	CORRECTION FACTOR
1	.785
1.05	.805
1.1	.820
1.15	.840
1.2	.850
1.3	.865
1.4	.875
1.5	.885
1.6	.895
1.7	.905
1.8	.910
1.9	.915
2.0	.920
2.1	.925

WIDTH/THICKNESS RATIO	CORRECTION FACTOR
2.2	.930
2.3-2.4	.935
2.5-2.6	.940
2.7	.945
2.8-3.0	.950
3.1-3.3	.955
3.4-3.7	.960
3.8-4.3	.965
4.4-5.2	.970
5.3-6.2	.975
6.3-7.9	.980
8.0-9.1	.985
9.2-9.9	.990

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