Aluminium - 6082 T6

Radius Marine Tees

Stock

Size (mm)	Weight/m (Kg)
30 x 40 x 4.5	0.86
30 x 50 x 5	1.01
32 x 32 x 3 / 4	0.59
32 x 54 x 4	0.91
32 x 55 x 6	1.31
32 x 65 x 5	1.38
32 x 75 x 6	1.66
32 x 90 x 6 / 5	1.66
35 x 60 x 4 / 3	0.85
35 x 60 x 5.5	1.10
38 x 38 x 4	0.80
40 x 40 x 3	0.65
40 x 40 x 4	0.84
40 x 60 x 3.5 / 3	1.25
40 x 70 x 4 / 3	1.43
40 x 70 x 6	1.45
40 x 80 x 4.5 / 3	1.63
40 x 100 x 8 / 6	2.35
45 x 80 x 6.5	1.73
45 x 100 x 4 / 8	1.99
45 x 100 x 5 / 8	2.24
48 x 50 x 4	1.07
50 x 50 x 4	1.06
50 x 50 x 5	1.31
50 x 50 x 6	1.57
50 x 60 x 4 / 6	1.42
50 x 70 x 4 / 8	1.76
50 x 76 x 5	1.66
50 x 100 x 5.5 / 3	2.43
50 x 100 x 7	2.21
50 x 120 x 6.5 / 3	3.02
50 x 140 x 6	3.10
50 x 140 x 7.5 / 4	3.83
50 x 156 x 6 / 6	3.27
50 x 185 x 15 / 8	5.72
55 x 120 x 7.5	2.91
60 x 100 x 5 / 9	2.70
60 x 140 x 6	3.20
60 x 140 x 8	3.53
65 x 170 x 8.5	4.73
60 x 180 x 8 / 4	5.25
65 x 65 x 6	2.06

Properties

Chemical Properties

Element	Chemical composition %
Manganese (Mn)	0.40 - 1.00
Iron (Fe)	0.0 - 0.50
Magnesium (Mg)	0.60 - 1.20
Silicon (Si)	0.70 - 1.30
Copper (Cu)	0.0 - 0.10
Zinc (Zn)	0.0 - 0.20
Titanium (Ti)	0.0 - 0.10
Chromium (Cr)	0.0 - 0.25
Aluminium (Al)	Balance

Mechanical Properties

Property	Value
Proof Stress	170 MPa
Tensile Strength	260 MPa
Elongation	19%
Shear Strength	170 MPa
Hardness Vickers	75 HV

Physical Properties

Property	Value
Density	2.70 g/cm^3
Melting Point	555°C
Thermal Expansion	24 x 10-6 /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	180 W/m.K
Electrical Resistivity	0.038 x 10-6 Ω.m

65 x 100 x 8	4.27
65 x 125 x 10 / 8	4.74
70 x 70 x 7	2.51
70 x 100 x 4 / 10	2.89
70 x 180 x 10 / 6	5.87
70 x 140 x 6 / 10	6.03
70.6 x 181.1 x 7.2 / 10.2	6.33
80 x 120 x 6	3.15
80 x 139 x 8 / 5	3.63
80 x 208 x 6 / 8	5.03
90 x 90 x 8 / 6	4.64
100 x 250 x 7 / 15	8.54
100 x 250 x 15 / 10	10.82
100 x 267 x 12 / 11	7.60
100 x 300 x 8 /10	7.42
100.9 x 50.6 x 3.2	1.29
120 x 180 x 8 / 15	8.46
120 x 370 x 8 / 10	11.10
150 x 200 x 6 / 10	7.55

Disclaimer