

Aluminium - 5083 F

Equal Angle

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical Composition %
30 x 30 x 3	0.47	Manganese (Mn)	0.40 - 1.00
30 x 30 x 6	0.97	Iron (Fe)	0.40 typical
40 x 40 x 3	0.63	Copper (Cu)	0.10 typical
40 x 40 x 6	0.97	Magnesium (Mg)	4.0 - 4.90
50 x 50 x 6	1.30	Silicon (Si)	0.40 typical
		Zinc (Zn)	0.25 typical
		Chromium (Cr)	0.05 - 0.25
		Titanium (Ti)	0.15 typical
		Aluminium (Al)	Balance
		Mechanical Properties	
		Property	Value
		Proof stress	145 MPa
		Tensile strength	300 MPa
		Elongation	23%
		Shear strength	175 MPa
		Hardness Vickers	75 HV
		Physical Properties	
		Property	Value
		Density	2.65 g/cm ³
		Melting point	570°C
		Thermal expansion	25 x 10 ⁻⁶ /K
		Modulus of elasticity	72 GPa
		Thermal conductivity	121 W/m.k
		Electrical resistivity	0.058 x 10 ⁻⁶ Ω.m

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