



HULAMIN

ROLLED PRODUCTS

6082 Data Sheet

Chemical Composition

(in weight %)

%	Cu	Mg	Si	Fe	Mn	Zn	Ti	Cr
min		0.6	0.7		0.4			
max	0.10	1.2	1.3	0.50	1.0	0.20	0.10	0.25

Mechanical Properties

(in weight %)

Temper		UTS (MPa)	0.2%, YS (MPa)	% Elongation	Typical Fatigue Strength (MPa)	Typical Hardness Brinell (HB)
		(minimum)	(minimum)	(minimum)		
T651	5mm - 12.5mm	300	255	9	110	95
	Over 12.5mm	295	240	8		

Physical Properties

Property	Value	Unit
Density	2.70	g/cm ³
Thermal Conductivity at 100°C	180 - 189	W/m.K
Electrical Resistivity at 20°C	0.038 x 10 ⁻⁶	Ωm
Modulus of Elasticity	70	GPa
Coefficient of thermal expansion	24 x 10 ⁻⁶	/°C
Melting Range	555 - 650	°C

Corrosion resistance

Good

Weldability

Good

Formability

Good

Machinability

Good

Anodising

Good

Brazeability

Good