



## PROPERTIES AND SPECIFICATIONS:

CHEMICAL COMPOSITION % (1)											
Alloy	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
										Each	Total
6463	Rem.	0.20 -0.60	0.15	0.25	0.05	0.30 -0.90	-	0.05	-	0.05	0.15

Temper	Size or Thickness (3)		Mechanical Property Compliance or Rating (2)			Typical Mechanical Properties, Characteristics and Applications				
			Tensile Strength (Mpa)		(5) Elong .% (min)	Tensile Strength (MPa)		Elong .%	Shear (MPa)	Hardness (Hv)
	Over mm	Up to mm	UTS (Min)	Yield (Min) (4)		UTS	Yield			
T5		12	150	110	8	165	120	12	117	65
T52		12	150-205	110	8	160	120	12	110	62
T6		3	205	170	8	225	185	12	152	75
	3	12	205	170	10	225	185	12	152	75

**Modulus of Elasticity (Gpa):**

[All Tempers]

- Tension ~ 69
- Compression ~ 69
- Shear ~ 26

**Resistance to Corrosion:**

- General (6) A Good resistance to corrosion without protection.
- Stress Corrosion Cracking A

**Workability (Cold)**

C Average

**Machinability**

C Average

**Weldability**

- Gas A Generally weldable by all commercial procedures and methods.
- Arc A
- Resistance, Spot & Seam A

**Brazeability**

A Generally weldable by all commercial procedures and methods.

**Typical Applications**

Bright anodised architectural, appliance and automotive trim extrusions requiring a decorative finish.

**Notes:**

- 1) Chemical compositions are referenced in AS/NZS 1866. Single figures are maximums.
- 2) Mechanical properties and ratings for T5 & T6 tempers are specified in AS/NZS 1866. T52 Temper is not listed in AS/NZS 1866.
- 3) Thickness is defined as the diameter of solid rod or the wall thickness or the equivalent major solid cross section.
- 4) Yield is based on 0.2% Proof Stress.
- 5) Elongation is based on 50mm test parameter.
- 6) Ratings A through E are relative ratings in order of merit for the hardest temper (A = Excellent E = Poor).

**Consult McKechnie Aluminium Technical Services Department if further information is required.**