PROPERTIES AND SPECIFICATIONS:

	Chemical Composition % (1)										
Alloy	**Al**	**Si**	**Fe**	**Cu**	**Mn**	**Mg**	**Cr**	**Zn**	**Ti**	**Others**	
										Each	**Total**
6261	Rem.	0.4 - 0.7	0.40	0.15 - 0.40	0.20 - 0.35	0.7 - 1.0	0.10	0.20	0.10	0.05	0.15

		Size or Thickness (3)		Mechanical Property Compliance or Rating (2)			Typical Mechanical Properties, Characteristics and Applications				
				Tensile Strength (MPa)		(5)	Tensile Strength (MPa)				
	Temper	**Over mm**	**Up to mm**	**UTS (Min)**	**Yield (Min) (4)**	**Elong. % (Min)**	**UTS**	**Yield**	**Elong. %**	**Shear (MPa)**	**Hardness (Hv)**
	T6	All		295	255	7	320	275	10	200	100

Modulus of Elasticity (GPa): **[All Tempers]** • **Tension** • **Compression** • **Shear**		 ~ 69 ~ 69 ~ 26
Resistance to Corrosion:	**(6)**	
• **General**	B	Good corrosion resistance for high strength applications.
• **Stress Corrosion Cracking**	A	
Workability (Cold)	C	Average
Machinability	C	Average
Weldability • **Gas** • **Arc** • **Resistance, Spot & Seam**	 A A A	Generally weldable by all commercial procedures and methods.
Brazeability	A	Generally weldable by all commercial procedures and methods.
Typical Applications		General heavy duty structures where good surface finish is needed. Marine and transport applications.

Notes:

1) Chemical compositions are referenced in AS/NZS 1866. Single figures are maximums.
2) Mechanical properties and ratings for T6 temper is specified 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.