

GUARANTEED MECHANICAL PROPERTIES EXTRUDED PRODUCTS

Alloy	Temper	Thickness		0,2 Proof stress Min Mpa	Ultimate tensile strength		Elongation Min	
		Over mm	Up to and including mm		Min Mpa	Max Mpa	A % Min	A50mm % mm
1070A	F		All		60		25	23
	O		100			130	18	16
	T4		25	65	120		14	12
6063	T5		3	130	175		8	6
	T5	3	25	110	160		7	5
	T6		10	170	215		8	6
	T6	10	80	160	195		8	6
	O		100		150		16	14
6063A	T4		25	90	150		12	10
	T5		25	160	200		7	5
	T6		25	190	230		7	5
6463	T4		50	75	125		14	12
	T6		50	160	195		10	8
6101A	T6		50	160	215		8	6
	O					150	16	14
6061	T4		25	110	180		15	13
	T6		5	240	260		8	6
	O		100			160	16	14
	F		100		110		13	12
6082	T4		80	120	190		16	14
	T6		20	250	295		8	6
	T6	20	80	260	310		8	
	T4		10	90	180			13
6005	T6		5	215	255			6
	T6	5	15	200	250			6

Notes :

* Thickness is defined as the diameter of solid rod or the wall thickness or the equivalent major solid cross-section thickness greater than those shown are subject to enquiry.

* The 0,2% Proof Stress is used to identify the elastic limit for aluminium alloys in the same way that Yield Stress is used for steels. The 0,2% Proof Stress fixes the elastic limit for all practical purposes as the stress causing a permanent deformation(strain) of 0,2%. This approach is necessary because, unlike steels, which yield elastic, aluminium alloys show no such clearly identified yield point.

* Mechanical properties in the F temper are not guaranteed.

* 1 Mpa = 1 MN/m; 1 Pascal(Pa) = 1N/m

* A Value = 5.65 So where So is the initial cross-sectional area of the test piece.