

## Mechanical Properties

Alloy Designation	Temper	CCD (mm)	Tensile Strength (Min) Kg/mm <sup>2</sup>	0.2% Proof Stress (Min) Kg/mm <sup>2</sup>	% Elongation On 50mm (Min)
AA1050/ALCAN C1S/IS19501*	M/F	-	6.12	-	25
AA6063/ALCAN 50S/IS63400 AA6060/ALCAN L50S	M/F	All	11.2	-	13.0
	W/T4	0 - 150	14.3	8.2	14.0
		150 - 200	12.8	8.2	13.0
	WP/T6	0 - 150	18.9	15.3	7.0
		150 - 200	15.3	13.3	6.0
AA6101/ALCAN D50S/IS64423**	WP/T6(Range1)	All	17.34	13.77	12
	WP/T6(Range2)	All	20.40	17.34	10
AA6351/AA6082/ALCAN B51S/ IS64430	M/F	All	11.2	8.2	12.0
	W/T4	0 - 150	18.9	12.2	14.0
		150 - 200	17.3	10.2	12.0
	WP/T6	0 - 75	31.5	27.5	7.0
		75 - 150	30.1	27.5	7.0
		150 - 336	28.0	23.0	7.0
AA6061/ALCAN D65S/IS65032	M/F	All	11.2	5.1	12.0
	W/T4	0 - 150	18.9	11.7	14.0
		150 - 200	17.3	10.2	12.0
	WP/T6	0 - 150	28.5	24.0	7.0
		150 - 200	25.0	20.4	6.0
AA6066/ALCAN C62S/IS64423	M/F	All	11.0	-	12.0
	W/T4	0 - 75	19.0	12.0	14.0
		0 - 75	36.0	31.5	7.0
	WP/T6	75 - 150	34.0	31.5	7.0
		150 - 220	30.1	27.5	7.0
AA2014/ALCAN B26S	M/F	All	15.3	-	12.0
	W/T4	10 - 75	39.5	24.0	10.0
		75 - 150	39.5	24.0	8.0
		150 - 200	38.3	23.0	8.0
	WP/T6	10 - 25	47.0	41.0	6.0
		25 - 75	49.0	43.0	6.0
		75 - 150	47.0	41.3	6.0
		150 - 200	43.9	38.8	6.0
AA2017/IS24534	M/F	All	15.3	9.18	12.0
	W/T4	0 - 10	38.27	22.45	10.0
		10 - 75	39.29	23.98	10.0
		75 - 150	39.29	23.98	8.0
		150 - 220	38.27	22.90	8.0
AA2024/ALCAN 24S	W/T4	10 - 20	40.50	26.5	12.0
		20 - 75	41.5	27.5	14.0
H12, HE12, HF12, AK4	M/F	All	21.3	-	18.0
	W/T4	Up to 50mm	28.0	24.0	12
	W/T6	Up to 50mm	37	32	6
AA7075/ALCAN 75S	WP/T6	All	56.1	50.0	5.0

\* Electrical Conductivity at 20°C :

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60% IACS (Min)

56.5% IACS (Min) for range 1

55% IACS (Min) for range 2