

### Mechanical properties against Temper designation

Alloy	Temper	UTS (Mpa)	% ELONGATION (Min) On 50 mm GAUGE LENGTH			
			0.12-0.32mm	0.33-0.63 mm	0.64 - 1.20mm	1.21-3.00mm
AA1050	0	55-95	15	18	23	25
	H12	75-110	-	6	7	12
	H14	85-120	1	2	6	10
	H16	95-130	1	2	4	5
	H18	110min	1	2	3	4
AA1100	0	75-105	15	17	22	30
	H12	95-130	-	3	5	8
	H14	110-145	1	2	3	5
	H16	130-165	1	2	3	4
	H18	150 min	1	1	2	4
AA1200	0	70-110	15	17	22	30
	H12	90-130	-	3	5	8
	H14	105-140	1	2	3	5
	H16	125-150	1	2	3	4
	H18	140min	1	2	2	4
AA1235	0	65-95	15	17	22	30
	H12	80-115	-	3	5	8
	H14	88-127	1	2	3	5
	H16	118-147	1	2	3	4
	H18	138 min	1	2	2	4
AA8011	0	85-120	14	20	22	25
	H12	105-140	3	4	6	9
	H14	125-160	1	2	3	5
	H16	150-180	1	2	3	4
	H18	175 min	1	1	2	4
AA3003	0	95-130	14	20	22	25
	H12	120-160	3	4	6	9
	H14	140-180	1	2	3	5
	H16	165-205	1	2	3	4
	H18	185 min	1	1	2	4
AA3105	0	95-145	-	16	19	20
	H12	130-180	-	1	2	3
	H14	150-200	-	1	2	2
	H16	170-220	-	1	1	2
	H18	190 min	-	1	1	2
AA5005	0	105-145	12	16	19	21
	H12	125-165	2	4	6	9
	H14	145-185	1	2	2	3
	H16	165-205	1	1	2	3
	H18	185 min	-	-	-	-
AA5052	0	170-215	13	15	17	19
	H12	215-265	-	4	5	7
	H14	235-285	3	3	4	6
	H16	255-305	2	3	4	4
	H18	270 min	2	3	4	4

**NOTE:** for H22, H24, H26, H28 temper, UTS will be same as UTS of H12, H14, H16 and H18 temper but % Elongation shall be slightly higher than the values indicated against H1x tempers.