

Mechanical Property Limit of Aluminum | PDF Download

Alloy	Material	Temper	ASTM Standard			
			Tensile Strength	Yield Strength	Percent Elongation	HRB
			kg/mm ²	kg/mm ²	% d 12.7mm	kg/mm ²
1000 Series	1050	H16	9.7-12.8	8		HV36
	1070	H16	8	4		HV32
2000 Series	2011	T3	27	21	15	53
		T8	29	22	12	56
	2014	O	25	13	12	HV45
		T351	35	25	12	58
		T6 、 T651	47	35	6	73
	2017	O	25	13	16	HV48
		T3 、 T351	35	21	12	58
	2024	O	25	13	12	HV47
		T3 、 T351	48	34	8	67
		T6 、 T651	43	35	5	72
3000Series	3003	O	10	4	22	30
		H12	9	3	22	HV35
		H14	22	21	16	15
		H16	26	25	14	18
5000 Series	5052	O	14	6	30	47
		H32	16	14	18	50
		H34	19	16	14	68
	5056	O	21	11	35	65
		H32	28	22	14	40
		H34	27	16	14	68
6000 Series	6061	O	15	11	16	30
		T6 、 T651	27	25	10	54
	6063	T5	11	16	12	40
	6066	O	11	6	18	43
		T6	35	32	8	70
	6082	T6	27	24	10	55
	6463	T5	15	11	7	HV60
7000 Series	7005	O	25	15	16	HV60
		T53	34	28	11	50
	7050	T6 、 T651	56	50	11	80
	7075	O	28	17	16	HV60
		T6	54	47	8	80

		T73	57	48	12	80
Yuan-Tai Series	YT4	T6	44	42	20	75

Conversion of Uints :

$1 \text{ MPa} = 1 \text{ N/mm}^2$; $1 \text{ kgf/mm}^2 = 9.8 \text{ MPa} = 9.8 \text{ N/mm}^2$

$1 \text{ Ksi} = 1000 \text{ psi} = 0.7037 \text{ kgf/mm}^2 = 6.89626 \text{ Mpa}$