



ALUMINIUMS General Tables Mechanical characteristics

Mechanical characteristics of those alloys used most for forging

Alloy Standards EN AW	State	Breaking Load P.M N/Mm	Elastic Limit Rp0.2 N/Mm	Elongation A 5.65%	Fatigue limit N/Mm	Brinell Hardness HB	Vickers Hardness HV
1050	0	80	35	45	55	20	20
1050	H12	100	85	13		30	30
1050	H14	115	100	10	70	35	36
1050	H16	130	120	8		40	
1050	H18	150	140	6	100	43	44
1200	0	90	40	40	70	23	22
1200	H12	110	90	11		31	32
1200	H14	130	110	10	100 38		38
1200	H16	140	130	8		40	42
1200	H18	160	150	6	130	45	46
2011	T3	365	290	15	250	95	100
2011	T6	395	300	12	250	100	115
2011	T8	420	315	13	250	115	120
2014	0	190	85	20	180	55	60
2014	T4	425	280	18	280	110	120
2014	T6	485	430	12	290	140	150
2017	0	180	70	20	180	45	50
2017	T4	425	275	21	260	110	115
2024	T0	185	75	20	175	60	65
2024	T3	480	345	19	285	115	120
2024	T4	465	335	20	285	120	125
2030	T3	465	360	11	275	110	125
2030	T4	445	295	14	265	100	
3003	H14	165	150	10	130 45		46
3103	H14	155	140	9	130	45	50
5005	H14	165	145	12		50	50
5052	0/H111	195	90	25	210	50	50
5083	0/H111	295	150	22	250 70		75
5251	H22	210	165	15		65	65
5754	0/H111	220	105	25	225 60		55
5086	0/H111	275	130	24	240	65	65
6005A	T1	205	105	25			
6005A	T5	265	235	14			
6060	T5	225	190	14	160 80		80
6061	T4	230	135	22	180	65	70
6061	T6/T651	310	270	15	190 95		100
6063	T6	245	215	15	150	75	80
6063	T8	260	240			85	85
6082	T6/T651	340	310	12	210	95	95
7020	T6/T651	380	340	14	270	120	125
7075	T6/T651	570	510	11	300	150	160
7075	T7351	500	435	14	300	140	150