



COMPARATIVE TABLE - Lightweight, High Strength Alloys

PROPERTY		CE17	CE17M	CE17M	CE17M	A 1200	A 6061	A6061
Density	g/cc	2.6	2.6	2.6	2.6	2.71	2.86	2.86
Yield	MPa	110	112	152	280	35	285	55
	ksi	16.0	16.2	22.0	40.6	5.1	41.3	8.0
UTS	MPa	160	180	220	330	90	325	125
	ksi	23.2	26.1	31.9	47.9	13.1	47.1	18.1
Elastic Mod	G.Pa	92	92	92	92	69	69	69
	ksi	13343	13343	13343	13343	10008	10008	10008
Specific Strength	M.Pa.cc/g	61.5	69.2	84.6	126.9	33.2	106	43.7
Specific Stiffness	G.Pa.cc/g	35.4	35.4	35.4	35.4	25.5	25.6	24.1
Thermal Conductivity	W/mK	178	147	147	140	226	180	180
CTE (RT)	ppm/C	16	16	16	16	23.5	23	23
CONDITION		Annealed	Annealed	Annealed	T6	Annealed	T6	Annealed
FORM		Billet	Billet	0.040" thick strip				