



COMPARATIVE TABLE - Lightweight, High Strength Alloys



PROPERTY	units	CE17	CE17M	CE17M	A 1200	A 6061	A6061
Density	g/cc	2.6	2.6	2.6	2.71	2.86	2.86
Yield	MPa	110	152	280	35	285	55
UTS	MPa	160	220	330	90	325	125
Elastic Mod	G.Pa	92	92	92	69	69	69
Specific Strength	M.Pa.cc/g	61.5	84.6	126.9	33.2	106	43.7
Specific Stiffness	G.Pa.cc/g	35.4	35.4	35.4	25.5	25.6	24.1
Thermal Conductivity	W/mK	178	147	140	226	180	180
CTE (RT)	ppm/C	16	16	16	23.5	23	23
Condition		Annealed	Annealed	T6	Annealed	T6	Annealed