



**Genuine
Beryllium**



AlBeMet[®]



**Composite
Metal Matrix**

Magnesium

Titanium

Aluminum

Properties

Physical Properties

ρ Density @ 25°C, g/cm³	1.84	2.07	2.90	1.74	4.51	2.78
α CTE @ 25°C, ppm/°C	11.5	13.9	13.4	26.1	8.60	23.2
λ Thermal Conductivity @ 25°C, W/m·K	216	210	130	159	16.4	193
C Specific Heat @ 25°C, J/g·°C	1.925	1.56	0.800	1.025	0.523	0.875

Mechanical Properties

UTS Ultimate Tensile Strength, MPa	370	435	570	196	344	186
YS Yield Strength, MPa	240	321	480	105	275	75.8
E Young's Modulus, GPa	303	193	140	44.0	105	73.1
ν Poisson's Ratio	0.070 - 0.180	0.17	0.30	0.35	0.37	0.33
c Speed of Sound, m/sec	12,833	9,656	6,948	5,029	4,825	5,128