



**Genuine
Beryllium**



AlBeMet[®]

Magnesium

Titanium

Aluminum

Physical Properties

ρ Density @ 25°C, g/cm³	1.85	2.10	1.77	4.51	2.78
α CTE @ 25°C, ppm/°C	11.5	13.9	26.0	8.60	23.2
λ Thermal Conductivity @ 25°C, W/m·K	216	210	96.0	16.4	193
C Specific Heat @ 25°C, J/g·°C	1.925	1.56	1.00	0.523	0.875

Mechanical Properties

UTS Ultimate Tensile Strength, MPa	370	413	255	344	186
YS Yield Strength, MPa	240	314	150	275	75.8
E Young's Modulus, GPa	310	193	45.0	105	73.1
ν Poisson's Ratio	0.032	0.17	0.35	0.37	0.33
c Speed of Sound, m/sec	12,945	9,656	5,042	4,825	5,128

HEALTH & SAFETY NOTE: Handling beryllium in solid form poses no special health risk. Like many industrial materials, beryllium-containing materials may pose a health risk if recommended safe handling practices are not followed. Inhalation of airborne beryllium may cause a serious lung disorder in susceptible individuals. The Occupational Safety and Health Administration (OSHA) has set mandatory limits on occupational respiratory exposures. Read and follow the guidance in the Safety Data Sheet (SDS) before working with this material. For additional information on safe handling practices or technical data on beryllium, contact Materion Electrofusion at +1 510.623.1500.

ELECTROFUSION

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