



**Truextent
Genuine
Beryllium**

Properties	Magnesium	Titanium	Aluminum
Physical Properties			
ρ Density @ 25°C, g/cm ³	1.85	4.51	2.78
α CTE @ 25°C, ppm/°C	11.5	8.60	23.2
λ Thermal Conductivity @ 25°C, W/m·K	216	16.4	193
C Specific Heat @ 25°C, J/g·°C	1.925	0.523	0.875
Mechanical Properties			
UTS Ultimate Tensile Strength, MPa	370	344	186
YS Yield Strength, MPa	240	275	75.8
E Young's Modulus, GPa	310	105	73.1
ν Poisson's Ratio	0.032	0.37	0.33
c Speed of Sound, m/sec	12,945	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.