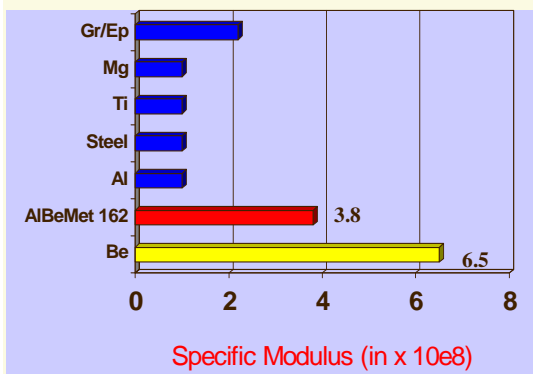
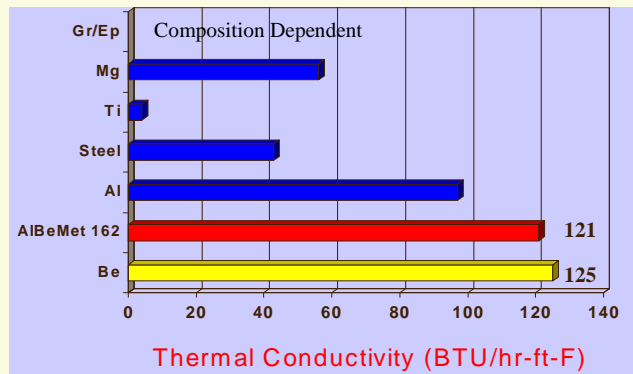
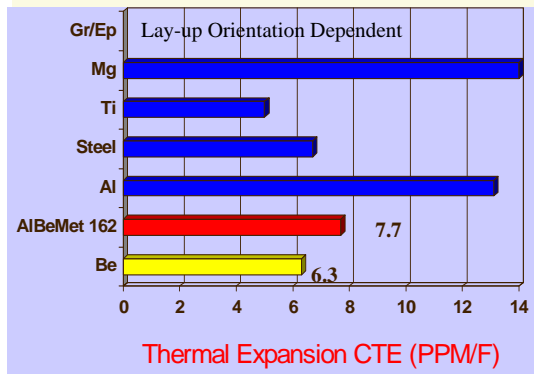
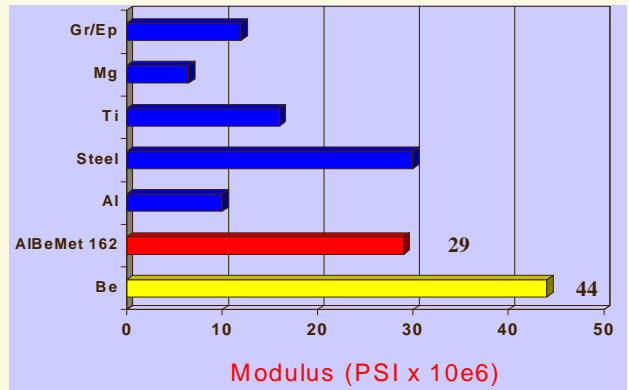
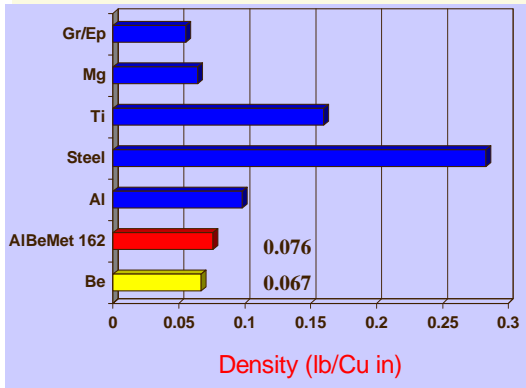


# Beryllium & AlBeMet<sup>®</sup>

## Engineered Materials That Can't Be Beat



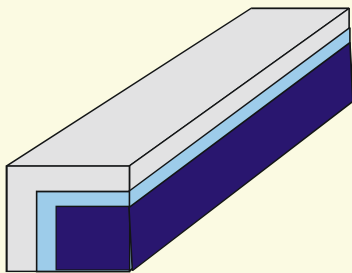
— Compared to Aluminum AlBeMet<sup>®</sup> is:

- Significantly lighter (25% less).
- Much stiffer (2.9 times stiffer).
- Much better thermal conductivity (25% higher).
- Lower C.T.E. (40% less).
- Equivalent in strength to 6061 T6
- Much higher heat capacitance (75% better).
- Can offer as much as 50% weight savings or 5 times more stiffness for the same weight.



# Beryllium & AlBeMet®'s Real World Performance Advantages

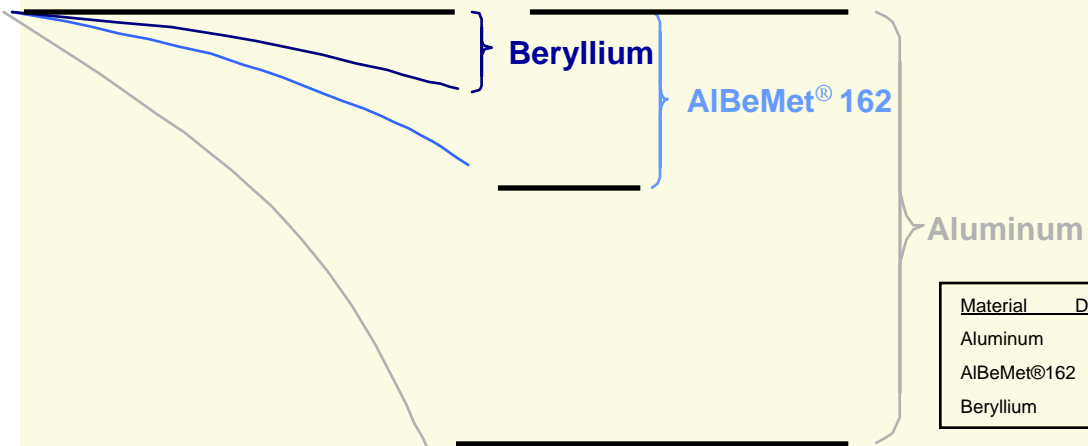
**This is a Comparison of Bar Sizes and Associated Bar Weights for Bars That Will Have Equal Tip Deflections Under Equal Loads:**



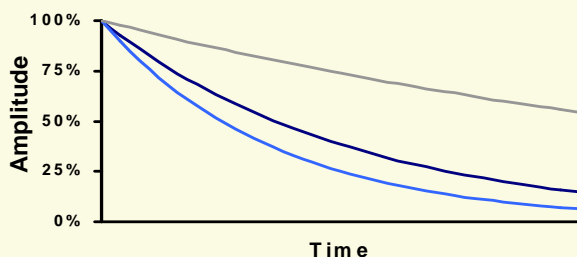
- Aluminum
- AlBeMet®
- Beryllium

Material	Volume	Weight
Aluminum	1	1
AlBeMet®162	0.59	0.45
Beryllium	0.48	0.32

**This is a Comparison of Bar Tip Deflections For Bars of Equal Weight That are Put Under Equal Loads:**



**This is a Comparison of Damping Properties of Equal Sized Bars With Equal Starting Amplitude:**



Material	% of Original Amplitude
Aluminum	55%
AlBeMet®162	8%
Beryllium	15%

**Brush Wellman Corp H&S Statement:**

Handling AlBeMet® 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 Material Safety Data Sheet (MSDS) before working with this material. For additional information on safe handling practices or technical data on AlBeMet®, contact Brush Wellman Inc. ([www.Brushwellman.com](http://www.Brushwellman.com))