

BELMONT ZINC SUPERDIE I ALLOY

PHYSICAL PROPERTIES AS SAND CAST

37,000 pounds per square inch	Ultimate Tensile Strength
4 ft - pounds (1/4 in bar)	Charpy Impact Strength
100	Brinell Hardness Number
.14 inch per foot	Solidification Shrinkage
60,000 to 75,000 pounds per sq in	Compressive Strength
34,000 pounds per sq inch	Shear Strength
717°F	Melting Point
6.7	Specific Gravity
.25 pounds	Weight per Cubic Inch
432 pounds	Weight per Cubic Foot
3%	Elongation in 2 inches
15.4 X 10 <sup>-6</sup> per °F	Coefficient of Linear Expansion
24.9% of Cu	Electrical Conductivity
.24 calories per cubic centimeter per degrees centigrade at 18°C	Thermal Conductivity

CHEMICAL COMPOSITION

Copper	2.6-2.9	Cadmium	0.003 MAX
Aluminum	3.9-4.3	Iron	0.075 MAX
Magnesium	0.025-0.05	Lead	0.003 MAX
Zinc	Balance	Tin	0.001 MAX

MERTS SPEC MIL-Z-7068 CLASS I & II, MIL-R-4208  
MIL-Z-16460A, ASTM B240 ALLOY AC43A

ZN-5

**Belmont: The Non Ferrous Specialists**

- Unmatched Variety of Non Ferrous Metals and Alloys-
- Standard and Custom Compositions and Shapes-
- Casting Metals, Alloys, Additions • Joining Metals & Alloys • Low-Melting (Fusible) Alloys
- Cathodic Anodes • Plating Anodes • Wire Specialties • Chemical Metals • Mercury

