MOLDMAX BeCu



WROUGHT ROD & PLATE



Moldmax: Beryllium Copper Alloy. High Strength, High Hardness and Wear resistance, Excellent Corrosion Resistance, Very Good Thermal Properties.

For: Injection Moulds, Core Cavity Inserts, Blow Mould Pinch Offs, Neck Rings, Handle Inserts, Hot Runner systems, Injection Nozzles and Manifolds.

INCREASED CYCLE TIMES FOR PLASTIC MOULDING

Moldmax: Provides strength and wear resistance similar to many tool steels, but with thermal conductivity up to ten times greater than steel.

Through the unique combination of thermal conductivity and strength **Moldmax** gives:

- Shorter Cycle Time
- Improved Plastic Part Dimensional Control.
- Better Parting Line Maintenance
- Mated with a variety of materials.

MOLDMAX Chemical Composition						
Copper %	Beryllium %	Cobalt %				
REM	1.6 – 2.0	0.2 – 0.3				

Moldmax Typical Mechanical Properties						
Temper	Tensile Strength	Yield Strength	Elongation (%)	Hardness		
High Hard	170 Ksi	145 KSi	5	RC 40		
НН	1170 MPa	1000 MPa	5	BH 373		
Low Hard	140 Ksi	110 Ksi	15	RC 30		
LH	965 MPa	760 MPa	15	BH 277		

Moldmax Physical Properties							
Elastic Modulus	Melting Point (Solidus)	Density	Thermal Expansion	Thermal Conductivity (100 C)	Heat Capacity		
19,000 Ksi	- 1600 o F	0.302 1b/in3	9.7x 10-6 oF-1	90 BTU/ hr ft 0 F	0.10 BTU/ lb oF		
131 GPa	870 o C	8.36 g/cm3	1.75 x 10-5 oC-1	155 W/m-K	0.44 x J/g.K		