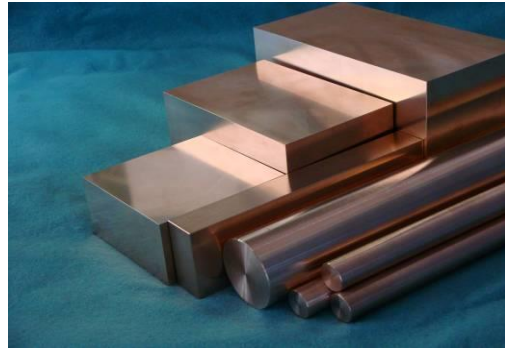


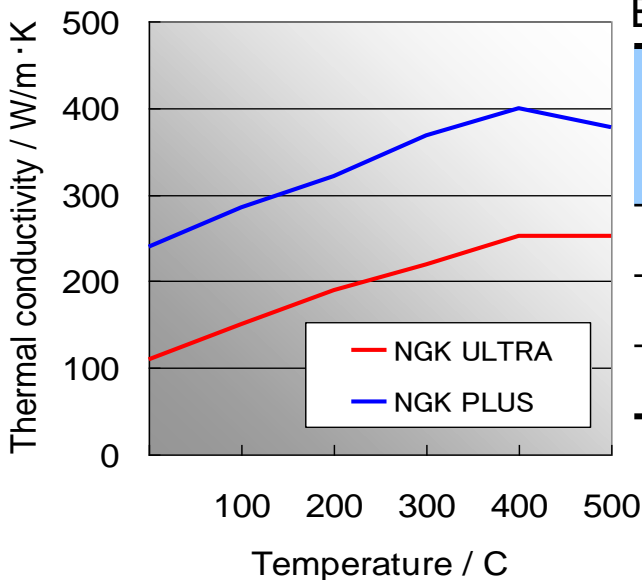
Beryllium Copper for Hot Stamping Dies

Beryllium copper alloys, which have a long history as the top performers among copper alloys, have key characteristics that make them especially suitable for advanced hot stamping dies.



1. The thermal conductivity of Cu-Be is **3 - 5 times better** than steel. >>>
Cu-Be will help to cool dies faster, and reduce cycle times.
2. Cu-Be is well-balanced with strength and thermal conductivity. >>>
The strength of Cu-Be (ULTRA) is almost **equal to that of steel**.

Beryllium coppers	Conductivity (W/m·K)	Hardness (Rockwell)	Strength (N/mm ²)	EL (%)	Feature
ULTRA	105	C36-42	1200	7	High strength
SUPRA	130	C25-32	1100	15	
PLUS	245	B95-102	800	20	High conductivity



Evaluation with Hot Stamping Die

Material	Thermal conductivity (W/m·K)	Ratio of cycle time
SKD61	37	100
ULTRA	105	75
PLUS	245	65

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917 US Hwy 11 South
Sweetwater, TN 37874
Phone: 800-523-8268

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