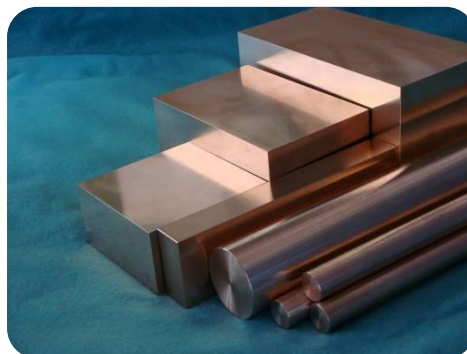


Beryllium Coppers for Hot Stamping

Feature of beryllium coppers:

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.



The thermal conductivity of CuBe is **3-5 times better** than steel.

➔ CuBe will help to cool dies faster, and reduce cycle time.

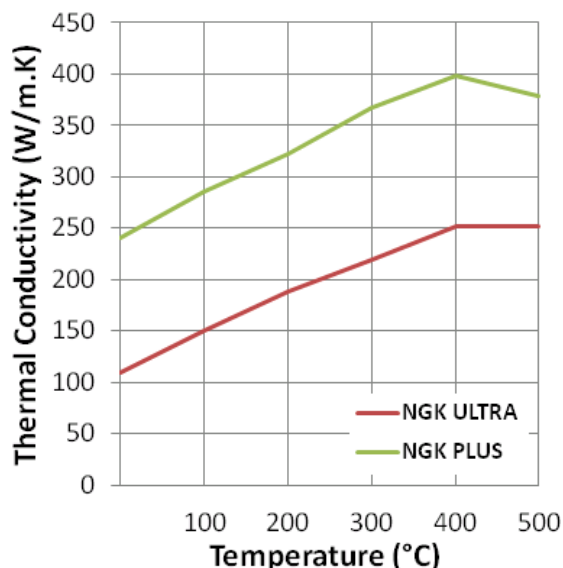
Cu-Be is well-balanced with strength and thermal conductivity.

➔ Strength of CuBe (ULTRA) is almost **equal to that of steel**.

■ Line-up of beryllium coppers for materials of Hot stamping die

Beryllium Copper alloy	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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