



NGK BERYLCO PLATE PRODUCTS

**PLUS, SUPRA and ULTRA
products are designed
with one goal in mind:
Improved profit through
improved performance.**



The machinability and polishability of Berylco® PLUS, SUPRA and ULTRA Plate meet cosmetic industry requirements.

PERFORMANCE ATTRIBUTES OF **NGK BERYLCO** PLATE PRODUCTS

BERYLCO® **PLUS**, **SUPRA** and **ULTRA** Products are excellent mold alloys for the plastic industry used as injection molds and tooling for blow molds. They are known to produce superior quality plastic parts with minimum total production costs, compared to other competing mold materials. This is due to its optimum combination of hardness, wear resistance, thermal fatigue and thermal conductivity.

Plate products are available in three grades from two alloy systems:

- **PLUS** is a higher conductivity, lower hardness beryllium copper alloy.
- **SUPRA** is a medium conductivity, medium hardness beryllium copper alloy.
- **ULTRA** is a lower conductivity, higher hardness beryllium copper alloy.

NGK BERYLCO · PLATE PRODUCTS
WORLD-CLASS QUALITY FOR A GLOBAL MARKETPLACE

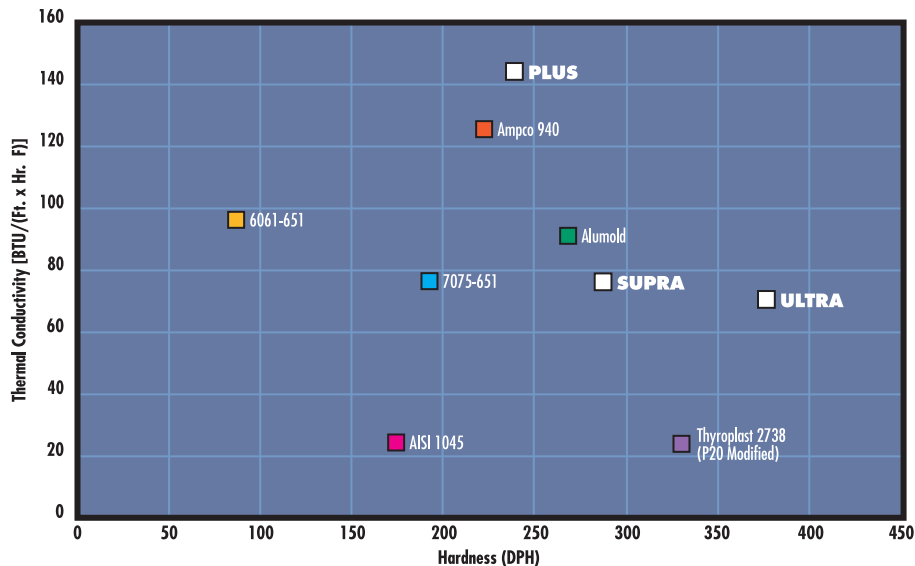
Berylco PLUS, SUPRA and ULTRA Performance Attributes.

TYPICAL PROPERTIES						
	Thermal Conductivity [BTU/(ft.hr.°F)]	Coefficient of Thermal Expansion (in./in./°F)	Modulus of Elasticity (psi)	Rockwell Hardness B or C scale	Tensile Strength (ksi)	% Elongation
PLUS	145	10.0 x 10 ⁻⁶	19.2 x 10 ⁶	B95 - 102	115	3%
SUPRA	75	9.7 x 10 ⁻⁶	18.5 x 10 ⁶	C25 - 32	170	15%
ULTRA	60	9.7 x 10 ⁻⁶	18.5 x 10 ⁶	C36 - 42	182	7%

Mold Material Characteristics

NGK TRADE NAME	CDA ALLOY NUMBER	TRADE NAME	TYPICAL CHARACTERISTICS
PLUS	17510 RB 95-102	ProTherm	High Conductivity / Low Hardness
SUPRA	17200 C25-32	Mold Max Lo Hard	Medium Conductivity / Medium Hardness
ULTRA	17200 C36-42	Mold Max Hi Hard	Low Conductivity / High Hardness

Mold Material Comparison (Thermal Conductivity – Hardness)



NGK Metals Corporation

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