

## Materion Nibryl Beryllium Nickel Alloy (Nibryl)-360 Rod and Bar; H1050 (H1050) Temper; All Sizes (UNS N03360)

Category : Metal , Nonferrous Metal , Beryllium Alloy , Nickel Alloy

### Material Notes:

Tabulated properties apply to products after age hardening. Information supplied by Brush Wellman.Brush Engineered Materials Inc. changed its name to Materion Corporation in March 2011.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Materion-Nibryl-Beryllium-Nickel-Alloy-Nibryl-360-Rod-and-Bar-H1050-H1050-Temper-All-Sizes-UNS-N03360.php](http://www.lookpolymers.com/polymer_Materion-Nibryl-Beryllium-Nickel-Alloy-Nibryl-360-Rod-and-Bar-H1050-H1050-Temper-All-Sizes-UNS-N03360.php)

Physical Properties	Metric	English	Comments
Density	8.28 g/cc	0.299 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 1410 MPa	>= 205000 psi	
Tensile Strength, Yield	>= 1170 MPa	>= 170000 psi	
Elongation at Break	>= 5.0 %	>= 5.0 %	
Modulus of Elasticity	207 GPa	30000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.78 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
Thermal Conductivity	48.0 W/m-K	333 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	1196 - 1330 °C	2185 - 2430 °F	
Solidus	1196 °C	2185 °F	
Liquidus	1330 °C	2430 °F	

Component Elements Properties	Metric	English	Comments
Beryllium, Be	1.85 - 2.05 %	1.85 - 2.05 %	
Nickel, Ni	97.5 %	97.5 %	as balance
Titanium, Ti	0.40 - 0.60 %	0.40 - 0.60 %	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	0.0000246 ohm-cm Metric	0.0000246 ohm-cm English	(7% IACS Conductivity) Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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