

## Eagle Brass 200/201 Nickel Alloy, 1/2 Hardened

Category : Metal , Nonferrous Metal , Nickel Alloy

**Material Notes:**

Nickel 200/201 has properties that are useful in industries such as chemical processing and electronics. Nickel is resistant to various reducing chemicals and alkaline materials. Compared with nickel alloys and many other materials 200/201 nickel has high electrical and thermal conductivity. It also has a high Curie temperature and good magnetostrictive properties. Annealed nickel has a low hardness and good ductility and formability. Those attributes, combined with good weldability, make the metal attractive for many types of parts. Information provided by Eagle Brass Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eagle-Brass-200201-Nickel-Alloy-12-Hardened.php](http://www.lookpolymers.com/polymer_Eagle-Brass-200201-Nickel-Alloy-12-Hardened.php)

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in <sup>3</sup>	As Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength	414 - 621 MPa	60000 - 90000 psi	
Elongation at Break	15 - 25 %	15 - 25 %	in 2 inches
Tensile Modulus	207 GPa	30000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.90 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 649 $^{\circ}\text{C}$	@Temperature 68.0 - 1200 $^{\circ}\text{F}$	
Thermal Conductivity	44.1 W/m-K	306 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	$\leq 0.070 \%$	$\leq 0.070 \%$	
Iron, Fe	$\leq 0.25 \%$	$\leq 0.25 \%$	
Manganese, Mn	$\leq 0.35 \%$	$\leq 0.35 \%$	
Nickel, Ni	$\geq 99.32 \%$	$\geq 99.32 \%$	Calculated as Balance
Sulfur, S	$\leq 0.010 \%$	$\leq 0.010 \%$	

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