

## Eagle Brass 304 Austenitic Stainless Steel, 3/4 Hardened

Category : Metal , Ferrous Metal , Stainless Steel , T 300 Series Stainless Steel

**Material Notes:**

Types 304 is a widely used variation of the basic 18-8 grade with variations of nickel, chromium and carbon content. It is weakly magnetic when cold rolled. Information provided by Eagle Brass Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eagle-Brass-304-Austenitic-Stainless-Steel-34-Hardened.php](http://www.lookpolymers.com/polymer_Eagle-Brass-304-Austenitic-Stainless-Steel-34-Hardened.php)

Physical Properties	Metric	English	Comments
Density	7.89 g/cc	0.285 lb/in <sup>3</sup>	As Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 1210 MPa	>= 175000 psi	
Tensile Strength, Yield	>= 931 MPa	>= 135000 psi	0.2% Offset
Tensile Modulus	193 GPa	28000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.7 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	10.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 649 $^\circ\text{C}$	@Temperature 68.0 - 1200 $^\circ\text{F}$	
Thermal Conductivity	16.3 W/m-K	113 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	
Chromium, Cr	18 - 20 %	18 - 20 %	
Iron, Fe	66.595 - 74 %	66.595 - 74 %	Calculated as Balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Nickel, Ni	8.0 - 10.5 %	8.0 - 10.5 %	
Phosphorous, P	<= 0.045 %	<= 0.045 %	
Silicon, Si	<= 0.75 %	<= 0.75 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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