

Eagle Brass 304 Austenitic Stainless Steel, Full 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-Full-Hardened.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 1280 MPa	>= 185000 psi	
Tensile Strength, Yield	>= 965 MPa	>= 140000 psi	0.2% Offset
Elongation at Break	>= 1.0 %	>= 1.0 %	in 2 inches
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 ² - $^{\circ}\text{F}$	

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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