

Eagle Brass 304L Austenitic Stainless Steel, 1/2 Hardened

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

Material Notes:

Type 304L is a very common variation of the basic 18-8 grade with variations of nickel, chromium and carbon content. It is weakly magnetic when cold rolled. Lower carbon 304L minimizes chromium carbide precipitation and its susceptibility to inter granular corrosion. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-304L-Austenitic-Stainless-Steel-12-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	>= 1030 MPa	>= 150000 psi	
Tensile Strength, Yield	>= 758 MPa	>= 110000 psi	0.2% Offset
Elongation at Break	>= 6.0 %	>= 6.0 %	in 2 inches
Tensile Modulus	193 GPa	28000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.7 µm/m-°C	10.4 µin/in-°F	
	@Temperature 20.0 - 649 °C	@Temperature 68.0 - 1200 °F	
Thermal Conductivity	16.3 W/m-K	113 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	18 - 20 %	18 - 20 %	
Iron, Fe	65.145 - 74 %	65.145 - 74 %	Calculated as Balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Nickel, Ni	8.0 - 12 %	8.0 - 12 %	
Phosphorous, P	<= 0.045 %	<= 0.045 %	
Silicon, Si	<= 0.75 %	<= 0.75 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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