

Eagle Brass 305 Austenitic Stainless Steel, Annealed

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

Material Notes:

Type 305 is a chromium nickel stainless steel that can be spun and deep drawn more easily due to an increased nickel content that decreases work hardening. It is nonmagnetic under most conditions. Typical uses include appliances, kitchen utensils, tank covers and other deep drawn parts. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-305-Austenitic-Stainless-Steel-Annealed.php

Physical Properties	Metric	English	Comments
Density	7.92 g/cc	0.286 lb/in ³	As Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 483 MPa	>= 70000 psi	
Tensile Strength, Yield	>= 172 MPa	>= 25000 psi	0.2% Offset
Elongation at Break	>= 40 %	>= 40 %	in 2 inches
Tensile Modulus	193 GPa	28000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.9 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	10.5 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 649 $^\circ\text{C}$	@Temperature 68.0 - 1200 $^\circ\text{F}$	
Thermal Conductivity	15.4 W/m-K	107 BTU-in/hr-ft ² - $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.12 %	<= 0.12 %	
Chromium, Cr	17 - 19 %	17 - 19 %	
Iron, Fe	65.055 - 72.5 %	65.055 - 72.5 %	Calculated as Balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Nickel, Ni	10.5 - 13 %	10.5 - 13 %	
Phosphorous, P	<= 0.045 %	<= 0.045 %	
Silicon, Si	<= 0.75 %	<= 0.75 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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