

## Eagle Brass 305 Austenitic Stainless Steel, 1/2 Hardened

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-12-Hardened.php](http://www.lookpolymers.com/polymer_Eagle-Brass-305-Austenitic-Stainless-Steel-12-Hardened.php)

Physical Properties	Metric	English	Comments
Density	7.92 g/cc	0.286 lb/in <sup>3</sup>	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	18.9 µm/m-°C	10.5 µin/in-°F	
	@Temperature 20.0 - 649 °C	@Temperature 68.0 - 1200 °F	
Thermal Conductivity	15.4 W/m-K	107 BTU-in/hr-ft <sup>2</sup> -°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 %	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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