

Eagle Brass 430 Ferritic Stainless Steel, 1/2 Hardened

Category : Metal , Ferrous Metal , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

Type 430 is one of the most widely used of the "non-hardenable" ferritic stainless steels. It combines good corrosion resistance and heat and oxidation with good mechanical properties. Typical product applications include automotive trim and molding, dishwashers, range hoods, steam iron bases, and flatware and restaurant equipments. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-430-Ferritic-Stainless-Steel-12-Hardened.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in ³	As Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength	621 - 689 MPa	90000 - 100000 psi	
Tensile Strength, Yield	517 - 655 MPa	75000 - 95000 psi	0.2% Offset
Elongation at Break	2.0 - 10 %	2.0 - 10 %	in 2 inches
Tensile Modulus	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.60 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 649 °C	@Temperature 68.0 - 1200 °F	
Thermal Conductivity	26.1 W/m-K	181 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.12 %	<= 0.12 %	
Chromium, Cr	16 - 18 %	16 - 18 %	
Iron, Fe	79.81 - 84 %	79.81 - 84 %	Calculated as Balance
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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