

Eagle Brass 1008 Low Carbon Steel, 1/2 Hardened

Category : Metal , Ferrous Metal , Carbon Steel , Low Carbon Steel

Material Notes:

1008 is a standard grade Carbon Steel. This alloy is generally used for "commercial quality" cold rolled steel. It is an economical, general purpose steel grade offering moderate strength and toughness. As a standard grade, 1008 steel is used in many common, low-stress applications. Weldability and brazeability are excellent. Typical uses include infrared counter measure flare substrate, electronic parts carrier, low ohm etched heating element and conductor grid elements. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-1008-Low-Carbon-Steel-12-Hardened.php

Physical Properties	Metric	English	Comments
Density	7.86 g/cc	0.284 lb/in ³	As Annealed

Mechanical Properties	Metric	English	Comments
Tensile Strength	379 - 517 MPa	55000 - 75000 psi	
Elongation at Break	4.0 - 16 %	4.0 - 16 %	in 2 inches
Tensile Modulus	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	15.8 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.80 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 649 $^{\circ}\text{C}$	@Temperature 68.0 - 1200 $^{\circ}\text{F}$	
Thermal Conductivity	36.0 W/m-K	250 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	$\leq 0.10 \%$	$\leq 0.10 \%$	
Iron, Fe	$\geq 99.685 \%$	$\geq 99.685 \%$	Calculated as Balance
Manganese, Mn	$\leq 0.15 \%$	$\leq 0.15 \%$	
Phosphorous, P	$\leq 0.030 \%$	$\leq 0.030 \%$	
Sulfur, S	$\leq 0.035 \%$	$\leq 0.035 \%$	

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