

# Carbon Steel Grade 1008 Fact Sheet

## Eagle Brass 1008 Low Carbon Steel, Annealed

**Subcategories:** Carbon Steel; AISI 1000 Series Steel; Low Carbon Steel

**Close Analogs:**

**Key Words:** ASTM A109; UNS G10080

Component	Weight %					
C	Max 0.10					
Fe	Min 99.685					
Mn	Max 0.15					
P	Max 0.030					
S	Max 0.035					
Physical Properties	Metric	English	Comments	Cold Head	Hot Forge	Wire Form
Density	7.86 g/cc	0.284 lb/in <sup>3</sup>	As Annealed			
Mechanical Properties	Metric	English	Comments	Cold Head	Hot Forge	Wire Form
Tensile Strength	241 - 345 MPa	35000 - 50000 psi				
Elongation at Break	>= 35 %	>= 35 %	in 2 inches			
Tensile Modulus	200 GPa	29000 ksi				
Thermal Properties	Metric	English	Comments	Cold Head	Hot Forge	Wire Form
CTE, linear	15.8 μm/m-°C	8.80 μin/in-°F				
	Temperature 20.0 - 649 °C	Temperature 68.0 - 1200 °F				
Thermal Conductivity	36.0 /m-K	250 BTU-in/hr-ft <sup>2</sup> -°F				