Eagle Brass 316L Austenitic Stainless Steel, Annealed

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

Material Notes:

Type 316L is an extra-low carbon version of Type 316 that minimizes carbide precipitation. Typical uses include exhaust manifolds, furnace parts, heat exchangers, jet engine parts, pharmaceutical and photographic equipment, valve and pump trim, chemical equipment, digesters, tanks, evaporators, pulp, paper and textile processing equipment and parts exposed to marine atmospheres and tubing.Information provided by Eagle Brass Company

Order this product through the following link:
http://www.lookpolymers.com/polymer_Eagle-Brass-316L-Austenitic-Stainless-Steel-Annealed.php

Physical Properties	Metric	English	Comments
Density	7.92 g/cc	0.286 lb/in³	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	18.5 µm/m-°C @Temperature 20.0 - 649 °C	10.3 µin/in-°F @Temperature 68.0 - 1200 °F	
Thermal Conductivity	15.9 W/m-K	110 BTU-in/hr-ft²-°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	16 - 18 %	16 - 18 %	
Iron, Fe	62.145 - 72 %	62.145 - 72 %	Calculated as Balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	2.0 - 3.0 %	2.0 - 3.0 %	
Nickel, Ni	10 - 14 %	10 - 14 %	
Phosphorous, P	<= 0.045 %	<= 0.045 %	

Component Elements Properties	Metric	English	Comments
Silicon, Si	<= 0.75 %	<= 0.75 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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