

Ametek Ultra 316L P/M Stainless Steel, Sintered from 6.49 g/cc Green Density

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

Material Notes:

Ametek's patented Ultra Stainless Steels™ are produced by alloying the conventional austenitic compositions with a small amount of a copper-nickel-tin alloy. This results in a marked improvement in corrosion resistance, while other properties are comparable to the conventional counterparts. Mechanical property data below is from samples lubricated with 1% Acrawax C and pressed at 40 tsi. Green strength 1000 ksi. Specimens were delubricated in air for 20 min. at 950°F (510°C), then sintered in dissociated ammonia for 30 min. at 2100°F (1149°C) and cooled in the water jacketed furnace cooling zone. Dimensional change from die size -0.03%. Information provided by Ametek Specialty Metal Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ametek-Ultra-316L-PM-Stainless-Steel-Sintered-from-649-gcc-Green-Density.php

Physical Properties	Metric	English	Comments
Density	6.46 g/cc	0.233 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	47	47	
Tensile Strength, Ultimate	300 MPa	43500 psi	
Tensile Strength, Yield	230 MPa	33400 psi	
Elongation at Break	4.2 %	4.2 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	17 %	17 %	
Copper, Cu	0.80 %	0.80 %	
Iron, Fe	63.5 %	63.5 %	as balance
Manganese, Mn	0.20 %	0.20 %	
Molybdenum, Mo	2.5 %	2.5 %	
Nickel, Ni	13 %	13 %	
Phosphorous, P	0.010 %	0.010 %	
Silicon, Si	0.80 %	0.80 %	
Sulfur, S	0.010 %	0.010 %	

Tin Sn	2.0%	2.0%	
Component Elements Properties	Metric	English	Comments

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