

Ametek Ultra 304L P/M Stainless Steel, Sintered from 6.38 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 1100 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 -0.09%. Information provided by Ametek Specialty Metal Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ametek-Ultra-304L-PM-Stainless-Steel-Sintered-from-638-gcc-Green-Density.php

Physical Properties	Metric	English	Comments
Density	6.41 g/cc	0.232 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	47	47	
Tensile Strength, Ultimate	290 MPa	42100 psi	
Tensile Strength, Yield	230 MPa	33400 psi	
Elongation at Break	4.1 %	4.1 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	19 %	19 %	
Copper, Cu	0.80 %	0.80 %	
Iron, Fe	66 %	66 %	as balance
Manganese, Mn	0.20 %	0.20 %	
Nickel, Ni	11 %	11 %	
Phosphorous, P	0.010 %	0.010 %	
Silicon, Si	0.80 %	0.80 %	
Sulfur, S	0.010 %	0.010 %	
Tin, Sn	2.0 %	2.0 %	

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