

Kinetics MIM 17-4PH Stainless Steel (As Sintered)

Category : Metal , Ferrous Metal , Stainless Steel , Precipitation Hardening Stainless

Material Notes:

Precipitation-hardening stainless steel. Offers a good balance between corrosion resistance and strength. Magnetic. Hardenable to various strength levels and hardness by varying the aging heat treat temperature. Typically provides better corrosion resistance than the 400 series stainless steels, and better strength than the 300 series stainless steels. Often used for aircraft, dental, marine, medical, surgical, and applications where high levels of strength and hardness, and good corrosion resistance is required. Property values reported are typical for Kinetics' MIM products.

Metal Injection Molding General Notes: Fine metal powders (generally

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kinetics-MIM-17-4PH-Stainless-Steel-As-Sintered.php

Physical Properties	Metric	English	Comments
Density	7.60 g/cc	0.275 lb/in ³	Sintered

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	27	27	
Tensile Strength, Ultimate	896 MPa	130000 psi	
Tensile Strength, Yield	731 MPa	106000 psi	
Elongation at Break	9.0 %	9.0 %	in 1 inch
Reduction of Area	38 %	38 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.070 %	<= 0.070 %	
Chromium, Cr	15.5 - 17.5 %	15.5 - 17.5 %	
Copper, Cu	3.0 - 5.0 %	3.0 - 5.0 %	
Iron, Fe	70 - 78.4 %	70 - 78.4 %	by difference
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Nb + Ta	0.15 - 0.45 %	0.15 - 0.45 %	
Nickel, Ni	3.0 - 5.0 %	3.0 - 5.0 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	

Descriptive Properties	Value	Comments
Surface Finish	30 Ra	

Descriptive Properties	Value	Comments
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