

Kinetics MIM 440C Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

Martensitic stainless steel. Excellent strength, hardness, and wear resistance while offering some corrosion resistance. Magnetic. Often used for automotive, cutlery, industrial equipment, power hand tools, pumps, sporting equipment industry, surgical instruments, valves, and applications where very high strength, hardness, and wear resistance, and some 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-440C-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	7.69 g/cc	0.278 lb/in ³	Sintered

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1650 MPa	240000 psi	
Tensile Strength, Yield	1240 MPa	180000 psi	
Elongation at Break	1.0 %	1.0 %	in 1 inch

Component Elements Properties	Metric	English	Comments
Carbon, C	0.95 - 1.2 %	0.95 - 1.2 %	
Chromium, Cr	16 - 18 %	16 - 18 %	
Iron, Fe	80.1 - 83.1 %	80.1 - 83.1 %	by difference
Molybdenum, Mo	<= 0.75 %	<= 0.75 %	

Descriptive Properties	Value	Comments
Hardness Rockwell R15N	85	
Surface Finish	45 Ra	

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