

Kinetics MIM 4605 Low Alloy Steel (As Sintered)

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy Steel

Material Notes:

Low alloy steel, carbon, nickel, molybdenum. A multi-purpose, economical material that offers various strength, hardness, and wear resistance properties depending if it is heat treated and the heat treat process used. Magnetic. Can be plated or coated for corrosion resistance. Used by a very wide range of industries including, automotive, consumer product, firearms, power hand tools, structural, and applications where good strength, hardness and wear resistance is required. The as-sintered condition offers better elongation, but with lower hardness and strength when compared to a heat treated condition. 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-4605-Low-Alloy-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 B	87	87	
Tensile Strength, Ultimate	579 MPa	84000 psi	
Tensile Strength, Yield	324 MPa	47000 psi	
Elongation at Break	15 %	15 %	in 1 inch
Reduction of Area	20 %	20 %	
Charpy Impact, Unnotched	54.2 J	40.0 ft-lb	1/2 size bar

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 - 0.60 %	0.40 - 0.60 %	
Iron, Fe	95.4 - 97.9 %	95.4 - 97.9 %	by difference
Molybdenum, Mo	0.20 - 0.50 %	0.20 - 0.50 %	
Nickel, Ni	1.5 - 2.5 %	1.5 - 2.5 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	

Descriptive Properties	Value	Comments
Surface Finish	40 Ra	

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