

Kinetics MIM 4605 Low Alloy Steel (Case Hardened)

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

Material Notes:

Low alloy steel containing 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. 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. Information provided by Kinetics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kinetics-MIM-4605-Low-Alloy-Steel-Case-Hardened.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell HR30N	88.3	88.3	R15N

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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