

Kinetics MIM 12 Chrome

Category : Metal , Electronic/Magnetic Alloy , Ferrous Metal , Alloy Steel , Medium Alloy Steel

Material Notes:

Stainless Steel for soft magnetic applications. Information provided by Kinetics, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Kinetics-MIM-12-Chrome.php

Physical Properties	Metric	English	Comments
Density	7.62 g/cc	0.275 lb/in ³	Sintered

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	83	83	
Tensile Strength, Ultimate	372 MPa	54000 psi	
Tensile Strength, Yield	203 MPa	29500 psi	
Elongation at Break	30 %	30 %	in 1 inch
Reduction of Area	50 %	50 %	
Charpy Impact, Unnotched	312 J	230 ft-lb	1/2 size bar

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.060 %	<= 0.060 %	
Chromium, Cr	12 - 14 %	12 - 14 %	
Iron, Fe	84.04 - 88 %	84.04 - 88 %	by difference
Magnesium, Mg	<= 0.50 %	<= 0.50 %	
Molybdenum, Mo	<= 0.40 %	<= 0.40 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000650 ohm-cm	0.0000650 ohm-cm	

Descriptive Properties	Value	Comments
Surface Finish	26 Ra	

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