

Kinetics MIM K3 Heat Treat as Sintered

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

Material Notes:

K3 is a custom Mo-Fe alloy that provides improved fatigue properties over many other steel alloys while still maintaining good strength components, industrial or structural components and other applications where compressive/tensile wear and fatigue loading is experienced. Information provided by Kinetics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kinetics-MIM-K3-Heat-Treat-as-Sintered.php

Physical Properties	Metric	English	Comments
Density	7.71 g/cc	0.279 lb/in ³	Sintered

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 841 MPa	>= 122000 psi	
	855 MPa	124000 psi	Typical
Tensile Strength, Yield	627 MPa	91000 psi	Typical
	>= 627 MPa	>= 91000 psi	
Elongation at Break	>= 8.0 %	>= 8.0 %	in 1 inch
	11 %	11 %	in 1 inch Typical
Reduction of Area	>= 15 %	>= 15 %	
	22 %	22 %	Typical
Charpy Impact, Unnotched	88.1 J	65.0 ft-lb	1/2 size bar

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 - 0.50 %	0.30 - 0.50 %	
Iron, Fe	97.5 - 98.7 %	97.5 - 98.7 %	by difference
Molybdenum, Mo	1.0 - 2.0 %	1.0 - 2.0 %	

Descriptive Properties	Value	Comments
Hardness Rockwell R15N	73	
Surface Finish	40 Ra	

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