

## Kinetics MIM K3 Heat Treat

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.php](http://www.lookpolymers.com/polymer_Kinetics-MIM-K3-Heat-Treat.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 1590 MPa	>= 230000 psi	
	1720 MPa	250000 psi	Typical
Tensile Strength, Yield	>= 1450 MPa	>= 210000 psi	
	1590 MPa	230000 psi	Typical
Elongation at Break	>= 2.0 %	>= 2.0 %	in 1 inch
	3.0 %	3.0 %	in 1 inch Typical
Reduction of Area	>= 3.0 %	>= 3.0 %	
	6.0 %	6.0 %	Typical
Charpy Impact, Unnotched	40.7 J	30.0 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 R15N	87	
Surface Finish	40 Ra	

## **Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**