

Kinetics

A Climax Engineered Materials Company

MATERIALS & PROPERTIES

MIM K3 as Sintered

Material Properties	Kinetics	
	Minimum	Typical
Ultimate Strength (KSI)	122	124
Yield Strength (KSI)	91	91
Elongation (% in 1")	8	11
Reduction in Area (%)	15	22
Surface Finish (Ra)	-	40
Impact Energy (ft-lbf) ¹	-	65
Macro Hardness (R15N)	-	73
Sintered Density (g/cm ³)	-	7.71

¹Test method uses 1/2 sized un-notched charpy bar.



Material Description

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.

Material Composition

Fe	Mo	C
Balance	1-2	0.3-0.5