

## Kinetics MIM F75 (ASTM F75) HIP

Category : Metal , Nonferrous Metal , Cobalt Alloy , Superalloy , Cobalt Base

### Material Notes:

Most commonly used within the medical market on applications requiring these characteristics: Bio-compatibility Corrosion resistance  
High strength Nonmagnetic Wear resistance. Information provided by Kinetics, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kinetics-MIM-F75-ASTM-F75-HIP.php](http://www.lookpolymers.com/polymer_Kinetics-MIM-F75-ASTM-F75-HIP.php)

Physical Properties	Metric	English	Comments
Density	8.25 g/cc	0.298 lb/in <sup>3</sup>	Sintered

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	25	25	
Tensile Strength, Ultimate	>= 655 MPa	>= 95000 psi	
	1010 MPa	147000 psi	Typical
Tensile Strength, Yield	>= 448 MPa	>= 65000 psi	
	558 MPa	81000 psi	Typical
Elongation at Break	>= 8.0 %	>= 8.0 %	in 1 inch
	30 %	30 %	in 1 inch Typical
Reduction of Area	40 %	40 %	
Charpy Impact, Unnotched	176 J	130 ft-lb	1/2 size bar

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.15 %	<= 0.15 %	
Chromium, Cr	26 - 30 %	26 - 30 %	
Cobalt, Co	58.85 - 68 %	58.85 - 68 %	
Iron, Fe	<= 0.75 %	<= 0.75 %	by difference
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	5.0 - 7.0 %	5.0 - 7.0 %	
Nickel, Ni	<= 1.0 %	<= 1.0 %	
Nitrogen, N	<= 0.25 %	<= 0.25 %	

Component Elements Properties	Metric	English	Comments
<b>Descriptive Properties</b>			
Surface Finish		40 Ra	

## Contact Songhan Plastic Technology Co.,Ltd.

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