

### MIM F75 (ASTM F75) HIP

Material Properties	ASTM F75 Minimum	Kinetics Typical
Ultimate Strength (KSI)	95	147
Yield Strength (KSI)	65	81
Elongation (% in 1")	8	30
Reduction in Area (%)	-	27
Surface Finish (Ra)	-	40
Impact Energy (ft-lbf) <sup>1</sup>	-	130
Macro Hardness (RC)	-	25
Sintered Density (g/cm <sup>3</sup> )	-	8.25 (HIP)

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



### Material Description

Most commonly used within the medical market on applications requiring these characteristics:

- Bio-compatibility
- Corrosion resistance
- High strength
- Nonmagnetic
- Wear resistance

### Material Composition

Co	Ni (Max)	Cr	Mo (Max)	C (Max)	Mn (Max)	Si	N (Max)	Fe (Max)
Balance	1	26-30	5-7	0.15	1	1	0.25	0.75