

### MIM 316 Stainless Steel as Sintered

Material Properties	MPIF Standard 35		Kinetics	
	Minimum	Typical	Minimum	Typical
Ultimate Strength (KSI)	65	75	73	78
Yield Strength (KSI)	20	25	24	29.1
Elongation (% in 1")	40	50	45	54
Reduction in Area (%)	-	-	45	54
Surface Finish (Ra)	-	-	-	33
Impact Energy (ft-lbf) <sup>1</sup>	-	140	150	159
Macro Hardness (R15N)	-	67 (HRB)	-	69.4
Sintered Density (g/cm <sup>3</sup> )	-	7.6	-	7.85

<sup>1</sup>Test method uses ½ sized un-notched charpy bar.



### Material Description

Austenitic stainless steel. Excellent corrosion resistance, elongation, and ductility. Non-magnetic. Often used for food industry, marine, medical and applications where corrosion resistance is of higher importance than that of strength or wear resistance.

### Material Composition

Fe	Ni	Cr	Mo	C (Max)	Mn (Max)	Si (Max)
Balance	10-14	16-18	2-3	0.08	2.0	1.0