

## Kinetics MIM 316 Stainless Steel (Premium Grade)

Category : Metal , Ferrous Metal , Stainless Steel , T 300 Series Stainless Steel

### Material Notes:

Austenitic stainless steel. Excellent corrosion resistance. Excellent elongation. Non-magnetic. Easily weldable. Can be polished to a mirror finish. Provides better elongation and ductility over the "standard" grade. Often used for food industry, marine, medical, and applications where corrosion resistance is of higher importance over that of strength or wear resistance. Property values reported are typical for Kinetics' MIM products. Metal Injection Molding General Notes: Fine metal powders (generally

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kinetics-MIM-316-Stainless-Steel-Premium-Grade.php](http://www.lookpolymers.com/polymer_Kinetics-MIM-316-Stainless-Steel-Premium-Grade.php)

Physical Properties	Metric	English	Comments
Density	7.92 g/cc	0.286 lb/in <sup>3</sup>	Sintered

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	64.5	64.5	
Tensile Strength, Ultimate	538 MPa	78000 psi	
Tensile Strength, Yield	179 MPa	26000 psi	
Elongation at Break	67 %	67 %	in 1 inch
Reduction of Area	70 %	70 %	
Charpy Impact, Unnotched	190 J	140 ft-lb	1/2 size bar

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.070 %	<= 0.070 %	
Chromium, Cr	16 - 18 %	16 - 18 %	
Iron, Fe	61.9 - 72 %	61.9 - 72 %	by difference
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	2.0 - 3.0 %	2.0 - 3.0 %	
Nickel, Ni	10 - 14 %	10 - 14 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	

Descriptive Properties	Value	Comments
Surface Finish	44 Ra	

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

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