

Kinetics MIM 316 Stainless Steel (Standard Grade)

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

Material Notes:

Austenitic stainless steel. Excellent corrosion resistance. Non-magnetic. Lower cost, elongation, and ductility than "premium" 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-Standard-Grade.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 7.85 g/cc | 0.284 lb/in ³ | Sintered |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------|-----------|--------------|
| Hardness, Rockwell B | 69.5 | 69.5 | |
| Tensile Strength, Ultimate | 538 MPa | 78000 psi | |
| Tensile Strength, Yield | 200 MPa | 29000 psi | |
| Elongation at Break | 54 % | 54 % | in 1 inch |
| Reduction of Area | 54 % | 54 % | |
| Charpy Impact, Unnotched | 216 J | 159 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 | 33 Ra | |

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