

Misumi G-STAR Martensite Free-cutting Stainless Steel

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel

Material Notes:

Corrosion resistant; excellent machinability. Comparable in material properties and chemical make up to STAVAX mold steel. Information provided by MISUMI Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Misumi-G-STAR-Martensite-Free-cutting-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	7.78 g/cc	0.281 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	33.0 - 37.0	33.0 - 37.0	
Tensile Strength, Ultimate	1060 MPa	154000 psi	
Tensile Strength, Yield	855 MPa	124000 psi	
Elongation at Break	16.0 %	16.0 %	

Thermal Properties	Metric	English	Comments
CTE, linear	10.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.72 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	25.1 W/m-K	174 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	

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