

Crucible Steel CPM® S30V® Stainless Steel

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel

Material Notes:

CPM S30V is a martensitic stainless steel designed to offer the best combination of toughness, wear resistance and corrosion resistance. Its chemistry has been specially balanced to promote the formation of vanadium carbides which are harder and more effective than chromium carbides in providing wear resistance. CPM S30V offers substantial improvement in toughness over other high hardness steels such as 440C and D2, and its corrosion resistance is equal to or better than 440C in various environments. The CPM process produces very homogeneous, high quality steel characterized by superior dimensional stability, grindability, and toughness compared to steels produced by conventional processes. Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-CPM-S30V-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Density	7.47 g/cc	0.270 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	255	255	Annealed
Hardness, Rockwell C	58 - 61	58 - 61	
Modulus of Elasticity	221 GPa	32100 ksi	
Charpy Impact	13.56 J	10.00 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 μm/m-°C	6.11 μin/in-°F	
	@Temperature 20.0 - 200 °C	@Temperature 68.0 - 392 °F	
Thermal Conductivity	17.31 W/m-K	120.1 BTU-in/hr-ft ² -°F	
	@Temperature 93.0 °C	@Temperature 199 °F	
Shrinkage	-0.100 - -0.0500 %	-0.100 - -0.0500 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.45 %	1.45 %	
Chromium, Cr	14 %	14 %	
Iron, Fe	78.55 %	78.55 %	As Remainder
Tungsten, W	2.0 %	2.0 %	

Component Elements Properties

Metric

English

Comments

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