

Crucible Steel CPM® 1V® High Alloy Tool Steel

Category : Metal , Ferrous Metal , Carbon Steel , Medium Carbon Steel , Tool Steel

Material Notes:

CPM 1V is a medium carbon, high alloy tool steel which exhibits high toughness combined with high heat resistance. It is suited for both hot or cold applications which demand high impact toughness and also require moderate wear resistance. The CPM (Crucible Particle Metallurgy) 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-1V-High-Alloy-Tool-Steel.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	187	187	Annealed
Hardness, Rockwell C	57 - 59	57 - 59	
Modulus of Elasticity	207 GPa	30000 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	21.88 W/m-K	151.8 BTU-in/hr-ft ² -°F	
	23.88 W/m-K	165.7 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	25.8 W/m-K	179 BTU-in/hr-ft ² -°F	
	@Temperature 300 °C	@Temperature 572 °F	
26.76 W/m-K	@Temperature 400 °C	@Temperature 752 °F	
	28.09 W/m-K	194.9 BTU-in/hr-ft ² -°F	
@Temperature 540 °C	@Temperature 1000 °F		

Component Elements Properties	Metric	English	Comments
Carbon, C	0.55 %	0.55 %	
Chromium, Cr	4.5 %	4.5 %	
Iron, Fe	89.05 %	89.05 %	As Remainder

Molybdenum, Mo Component Elements Properties	2.75 % Metric	2.75 % English	Comments
Tungsten, W	2.15 %	2.15 %	
Vanadium, V	1.0 %	1.0 %	

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