

Crucible Steel CPM® 4V® Tool Steel

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

CPM 4V is a powder metal tool steel with an outstanding combination of properties including high impact toughness and very good wear resistance. CPM 4V should be considered for service in fine blanking, powder compaction tools, for processing high-strength low-alloy (HSLA) steels, advanced high-strength steels (AHSS) and applications where a combination of strength , wear resistance and toughness is required. CPM 4V should be considered for applications where a higher attainable hardness and additional abrasion resistance is required than can be offered by CPM 3V. Information provided by Crucible Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-CPM-4V-Tool-Steel.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	>= 44	>= 44	austenitized at 1800°F, then quenched and tempered
	@Tempering Temp. 621 °C	@Tempering Temp. 1150 °F	
	50	50	austenitized at 1950°F, then quenched and tempered
	@Tempering Temp. 621 °C	@Tempering Temp. 1150 °F	
	55	55	austenitized at 1950°F, then quenched and tempered
	@Tempering Temp. 593 °C	@Tempering Temp. 1100 °F	
	60	60	austenitized at 1950°F, then quenched and tempered
	@Tempering Temp. 566 °C	@Tempering Temp. 1050 °F	
Modulus of Elasticity	62	62	austenitized at 1950°F, then quenched and tempered
	@Tempering Temp. 538 °C	@Tempering Temp. 1000 °F	
	<= 64	<= 64	austenitized at 2100°F, then quenched and tempered
	@Tempering Temp. 538 °C	@Tempering Temp. 1000 °F	
Charpy Impact	48.8 J	36.0 ft-lb	austenitized; C-notch
	@Treatment Temp. 1120 °C	@Treatment Temp. 2050 °F	

Mechanical Properties	67.8 J Metric	50.0 ft-lb English	Comments
	@Treatment Temp. 1070 °C	@Treatment Temp. 1950 °F	austenitized; C-notch
	74.6 J	55.0 ft-lb	
	@Treatment Temp. 982 °C	@Treatment Temp. 1800 °F	austenitized; C-notch

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.35 %	1.35 %	
Chromium, Cr	5.0 %	5.0 %	
Iron, Fe	85.65 %	85.65 %	as balance
Manganese, Mn	0.40 %	0.40 %	
Molybdenum, Mo	2.95 %	2.95 %	
Silicon, Si	0.80 %	0.80 %	
Vanadium, V	3.85 %	3.85 %	

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