

## **Crucible Steel 154 CM Martensitic Steel**

Category: Metal, Ferrous Metal, Martensitic, Stainless Steel

## **Material Notes:**

Crucible 154 CM is a modification of 440C martensitic stainless steel to which molybdenum has been added. 154 CM has better corrosion resistance, better wear resistance and better hot-hardness than 440C. For knife makers, it offers better edge retention than 440C. It also has higher attainable hardness and better through hardening characteristics than 440C. Information provided by Crucible Specialty Metals.

## Order this product through the following link:

http://www.lookpolymers.com/polymer\_Crucible-Steel-154-CM-Martensitic-Steel.php

Physical Properties	Metric	English	Comments
Density	7.78 g/cc	0.281 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	58.5	58.5	
Modulus of Elasticity	207 GPa	30000 ksi	

Thermal Properties	Metric	English	Comments
	7.02 μm/m-°C	3.90 µin/in-°F	
CTE, linear	@Temperature -73.3 - 21.1 °C	@Temperature -100 - 70.0 °F	
	10.35 μm/m-°C	5.750 μin/in-°F	
	@Temperature 21.0 - 149 °C	@Temperature 69.8 - 300 °F	
	10.91 μm/m-°C	6.061 µin/in-°F	
	@Temperature 21.0 - 260 °C	@Temperature 69.8 - 500 °F	
	11.86 μm/m-°C	6.589 μin/in-°F	
	@Temperature 21.0 - 482 °C	@Temperature 69.8 - 900 °F	
Thermal Conductivity	24.2 W/m-K	168 BTU-in/hr-ft²-°F	
memai conductivity	@Temperature 95.0 °C	@Temperature 203 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.05 %	1.05 %	
Chromium, Cr	14 %	14 %	
Iron, Fe	80.95 %	80.95 %	As Remainder



Component Elements Properties	Metric 4. U -a	English	Comments
Descriptive Properties		Value	Comments
Total Carbide Volume; %		17.5	
Wear Resistance; mg		49	Pin abrasion method

## **Contact Songhan Plastic Technology Co.,Ltd.**

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