

Crucible Steel Holder Block Steel, AISI 4150 Modified

Category : Metal , Ferrous Metal , Alloy Steel , AISI 4000 Series Steel

Material Notes:

Crucible Holder Block is a prehardened (26/30 HRC) free machining medium alloy steel intended for holders or backers for plastic molds, die casting dies, and cold or hot forming tools. It may also be used for light cold forming tools such as brake dies. Information provided by Crucible Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-Holder-Block-Steel-AISI-4150-Modified.php

Physical Properties	Metric	English	Comments
Density	7.81 g/cc	0.282 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	30	30	oil quenched from 1525°F then tempered
	@Tempering Temp. 649 °C	@Tempering Temp. 1200 °F	
	36	36	
	@Tempering Temp. 538 °C	@Tempering Temp. 1000 °F	
	45	45	
	@Tempering Temp. 427 °C	@Tempering Temp. 800 °F	oil quenched from 1525°F then tempered
	53	53	oil quenched from 1525°F then tempered
	@Tempering Temp. 316 °C	@Tempering Temp. 600 °F	
	56	56	oil quenched from 1525°F then tempered
	@Tempering Temp. 204 °C	@Tempering Temp. 400 °F	
Modulus of Elasticity	200 GPa	29000 ksi	
Charpy Impact	40.7 J	30.0 ft-lb	oil quenched from 1525°F then tempered
	@Tempering Temp. 510 °C	@Tempering Temp. 950 °F	
	67.8 J	50.0 ft-lb	
	@Tempering Temp. 593 °C	@Tempering Temp. 1100 °F	oil quenched from 1525°F then tempered
	74.6 J	55.0 ft-lb	oil quenched from 1525°F then tempered
	@Tempering Temp. 649 °C	@Tempering Temp.	

Mechanical Properties	°C Metric	1200 °F English	Comments
	94.9 J	70.0 ft-lb	
	@Tempering Temp. 704 °C	@Tempering Temp. 1300 °F	oil quenched from 1525°F then tempered

Thermal Properties	Metric	English	Comments
CTE, linear	11.7 µm/m-°C	6.50 µin/in-°F	
	@Temperature 21.1 - 93.3 °C	@Temperature 70.0 - 200 °F	
	12.6 µm/m-°C	7.00 µin/in-°F	
	@Temperature 21.1 - 204 °C	@Temperature 70.0 - 400 °F	
Thermal Conductivity	3.31 W/m-K	23.0 BTU-in/hr-ft²-°F	
	@Temperature 93.3 °C	@Temperature 200 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.50 %	0.50 %	
Chromium, Cr	0.65 %	0.65 %	
Iron, Fe	97 %	97 %	as balance
Manganese, Mn	1.25 %	1.25 %	
Molybdenum, Mo	0.18 %	0.18 %	
Silicon, Si	0.25 %	0.25 %	
Sulfur, S	0.080 %	0.080 %	

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