

International Mold Steel Daido DRM3 Matrix High-Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

This conventional grade MH88 has been improved to DRM3. High hardness and tough DRM3 with excellent hardenability is suitable for high precision cold working tools. Information provided by International Mold Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_International-Mold-Steel-Daido-DRM3-Matrix-High-Speed-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 235	<= 235	
Hardness, Rockwell C	62 - 66	62 - 66	
	60	60	
	@Treatment Temp. 600 Â°C	@Treatment Temp. 1110 Â°F	
	66	66	
	@Treatment Temp. 520 Â°C	@Treatment Temp. 968 Â°F	
	66	66	
	@Treatment Temp. 560 Â°C	@Treatment Temp. 1040 Â°F	
Tensile Modulus	210 GPa	30500 ksi	
Fatigue Strength	950 MPa	138000 psi	
	@# of Cycles 1.00e+7	@# of Cycles 1.00e+7	
	1075 MPa	155900 psi	
	@# of Cycles 1.00e+6	@# of Cycles 1.00e+6	
	1150 MPa	167000 psi	
	@# of Cycles 100000	@# of Cycles 100000	
Charpy Impact Unnotched	13.0 J/cmÂ²	61.9 ft-lb/inÂ²	65.5 HRC
	16.0 J/cmÂ²	76.1 ft-lb/inÂ²	63.5 HRC

Thermal Properties	Metric	English	Comments
CTE, linear	11.1 Âµm/m-Â°C	6.17 Âµin/in-Â°F	
	@Temperature 20.0 - 100 Â°C	@Temperature 68.0 - 212 Â°F	

Thermal Properties	11.9 Åm/m-Å°C Metric	6.61 Åin/in-Å°F English	Comments
	@Temperature 20.0 - 300 Å°C	@Temperature 68.0 - 572 Å°F	
	12.4 Åµm/m-Å°C	6.89 Åµin/in-Å°F	
	@Temperature 20.0 - 500 Å°C	@Temperature 68.0 - 932 Å°F	
Specific Heat Capacity	0.424 J/g-Å°C	0.101 BTU/lb-Å°F	
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	0.520 J/g-Å°C	0.124 BTU/lb-Å°F	
	@Temperature 300 Å°C	@Temperature 572 Å°F	
	0.612 J/g-Å°C	0.146 BTU/lb-Å°F	
	@Temperature 500 Å°C	@Temperature 932 Å°F	
	0.830 J/g-Å°C	0.198 BTU/lb-Å°F	
	@Temperature 700 Å°C	@Temperature 1290 Å°F	
Thermal Conductivity	18.0 W/m-K	125 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	23.1 W/m-K	160 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 300 Å°C	@Temperature 572 Å°F	
	24.4 W/m-K	169 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 500 Å°C	@Temperature 932 Å°F	
	26.0 W/m-K	180 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 700 Å°C	@Temperature 1290 Å°F	

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