

International Mold Steel Daido DRM2 Matrix High-Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

This matrix type high speed tool steel is available for warm and cold forging tools where critical performance is required. DRM2 prolongs service life due to its higher hardness and toughness than those of conventional grades. Information provided by International Mold Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_International-Mold-Steel-Daido-DRM2-Matrix-High-Speed-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 235	<= 235	
Hardness, Rockwell C	56 - 62	56 - 62	
	57	57	
	@Treatment Temp. 600 Â°C	@Treatment Temp. 1110 Â°F	
	62	62	
	@Treatment Temp. 560 Â°C	@Treatment Temp. 1040 Â°F	
Tensile Modulus	62.5	62.5	
	@Treatment Temp. 520 Â°C	@Treatment Temp. 968 Â°F	
	210 GPa	30500 ksi	
Fatigue Strength	800 MPa	116000 psi	
	@# of Cycles 1.00e+7	@# of Cycles 1.00e+7	
	950 MPa	138000 psi	
	@# of Cycles 1.00e+6	@# of Cycles 1.00e+6	
Charpy Impact Unnotched	1200 MPa	174000 psi	
	@# of Cycles 20000	@# of Cycles 20000	
	60.0 J/cmÂ²	286 ft-lb/inÂ²	62.5 HRC
	145 J/cmÂ²	690 ft-lb/inÂ²	58 HRC

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 Âµm/m-Â°C	6.11 Âµin/in-Â°F	
	@Temperature 20.0 - 100 Â°C	@Temperature 68.0 - 212 Â°F	

Thermal Properties	11.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ Metric	6.58 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ English	Comments
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
	12.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.83 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 500 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 932 $\text{Å}^\circ\text{F}$	
	12.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 700 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1290 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.458 J/g- $\text{Å}^\circ\text{C}$	0.109 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 25.0 $\text{Å}^\circ\text{C}$	@Temperature 77.0 $\text{Å}^\circ\text{F}$	
	0.555 J/g- $\text{Å}^\circ\text{C}$	0.133 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 300 $\text{Å}^\circ\text{C}$	@Temperature 572 $\text{Å}^\circ\text{F}$	
	0.669 J/g- $\text{Å}^\circ\text{C}$	0.160 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 500 $\text{Å}^\circ\text{C}$	@Temperature 932 $\text{Å}^\circ\text{F}$	
	0.910 J/g- $\text{Å}^\circ\text{C}$	0.217 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 700 $\text{Å}^\circ\text{C}$	@Temperature 1290 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	23.2 W/m-K	161 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 25.0 $\text{Å}^\circ\text{C}$	@Temperature 77.0 $\text{Å}^\circ\text{F}$	
	27.9 W/m-K	194 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 300 $\text{Å}^\circ\text{C}$	@Temperature 572 $\text{Å}^\circ\text{F}$	
	28.8 W/m-K	200 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 500 $\text{Å}^\circ\text{C}$	@Temperature 932 $\text{Å}^\circ\text{F}$	
	29.6 W/m-K	205 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 700 $\text{Å}^\circ\text{C}$	@Temperature 1290 $\text{Å}^\circ\text{F}$	

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