

## International Mold Steel DHA-World Die Cast & Forging Steel

Category : Metal , Ferrous Metal , Tool Steel

### Material Notes:

DHA-World is a high hardenability and high tough general use hot work die steel. Information provided by International Mold Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_International-Mold-Steel-DHA-World-Die-Cast-Forging-Steel.php](http://www.lookpolymers.com/polymer_International-Mold-Steel-DHA-World-Die-Cast-Forging-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.80 g/cc	0.282 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 229	<= 229	
Hardness, Rockwell C	<= 53	<= 53	
Fracture Toughness	50.0 MPa-m <sup>1/2</sup>	45.5 ksi-in <sup>1/2</sup>	47 HRC
	80.0 MPa-m <sup>1/2</sup>	72.8 ksi-in <sup>1/2</sup>	43 HRC
Charpy Impact Unnotched	20.0 J/cm <sup>2</sup>	95.2 ft-lb/in <sup>2</sup>	49 HRC
	22.0 J/cm <sup>2</sup>	105 ft-lb/in <sup>2</sup>	47 HRC
	37.0 J/cm <sup>2</sup>	176 ft-lb/in <sup>2</sup>	44 HRC

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 Åµm/m-Å°C	6.28 Åµin/in-Å°F	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
	12.1 Åµm/m-Å°C	6.72 Åµin/in-Å°F	
	@Temperature 20.0 - 300 Å°C	@Temperature 68.0 - 572 Å°F	
	12.8 Åµm/m-Å°C	7.11 Åµin/in-Å°F	
@Temperature 20.0 - 500 Å°C	@Temperature 68.0 - 932 Å°F		
Specific Heat Capacity	13.2 Åµm/m-Å°C	7.33 Åµin/in-Å°F	
	@Temperature 20.0 - 700 Å°C	@Temperature 68.0 - 1290 Å°F	
	0.473 J/g-Å°C	0.113 BTU/lb-Å°F	
@Temperature 100 Å°C	@Temperature 212 Å°F		

Thermal Properties	0.558 J/g-Â°C Metric	0.133 BTU/lb-Â°F English	Comments
	@Temperature 300 Â°C	@Temperature 572 Â°F	
	0.667 J/g-Â°C	0.159 BTU/lb-Â°F	
	@Temperature 500 Â°C	@Temperature 932 Â°F	
	0.934 J/g-Â°C	0.223 BTU/lb-Â°F	
	@Temperature 700 Â°C	@Temperature 1290 Â°F	
Thermal Conductivity	25.2 W/m-K	175 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	27.6 W/m-K	192 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 700 Â°C	@Temperature 1290 Â°F	
	27.9 W/m-K	194 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 300 Â°C	@Temperature 572 Â°F	
	28.7 W/m-K	199 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 500 Â°C	@Temperature 932 Â°F	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China