

## International Mold Steel DH31-EX Die Cast & Forging Steel

Category : Metal , Ferrous Metal , Tool Steel

### Material Notes:

DH31-EX is a hot working die steel with the best balance of strength and toughness showing the comparable softening resistance to SKD7 and twice hardenability as that of SKD61. Information provided by International Mold Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_International-Mold-Steel-DH31-EX-Die-Cast-Forging-Steel.php](http://www.lookpolymers.com/polymer_International-Mold-Steel-DH31-EX-Die-Cast-Forging-Steel.php)

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

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.11 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
	11.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 300 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 572 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	12.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.72 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 500 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 932 $\text{Å}^\circ\text{F}$	
	12.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 700 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1290 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.435 J/g- $\text{Å}^\circ\text{C}$	0.104 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
	0.478 J/g- $\text{Å}^\circ\text{C}$	0.114 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 200 $\text{Å}^\circ\text{C}$	@Temperature 392 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.554 J/g- $\text{Å}^\circ\text{C}$	0.132 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 400 $\text{Å}^\circ\text{C}$	@Temperature 752 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	0.707 J/g- $\text{Å}^\circ\text{C}$	0.169 BTU/lb- $\text{Å}^\circ\text{F}$	
	@Temperature 600 $\text{Å}^\circ\text{C}$	@Temperature 1110 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	26.0 W/m-K	180 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	

Thermal Properties	Metric	English	Comments
	27.3 W/m-K	197 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	28.4 W/m-K	197 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 400 °C	@Temperature 752 °F	
	29.2 W/m-K	203 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 600 °C	@Temperature 1110 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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