

## Weartech International WT-800 Cobalt Hardfacing & Wear Resistant Alloy

Category : Metal , Nonferrous Metal , Cobalt Alloy

### Material Notes:

Applications: Magnetic tape heads, valves, extruder barrels  
Information provided by Weartech International

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Weartech-International-WT-800-Cobalt-Hardfacing-Wear-Resistant-Alloy.php](http://www.lookpolymers.com/polymer_Weartech-International-WT-800-Cobalt-Hardfacing-Wear-Resistant-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.72 g/cc	0.315 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	54 - 62	54 - 62	
Charpy Impact	<= 5.42 J	<= 4.00 ft-lb	As Cast

Thermal Properties	Metric	English	Comments
CTE, linear	13.1 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	7.30 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Specific Heat Capacity	0.410 J/g- $^\circ\text{C}$	0.0980 BTU/lb- $^\circ\text{F}$	
Melting Point	<= 1352 $^\circ\text{C}$	<= 2465 $^\circ\text{F}$	
Liquidus	1352 $^\circ\text{C}$	2465 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.080 %	0.080 %	
Chromium, Cr	17 %	17 %	
Cobalt, Co	50.42 %	50.42 %	
Molybdenum, Mo	29 %	29 %	
Silicon, Si	3.5 %	3.5 %	

Descriptive Properties	Value	Comments
Corrosion Resistance, Hydrochloric Acid Conc. 5.65%	<5 mils/year	RT
Corrosion Resistance, Nitric Acid Conc. 25-65%	<5 mils/year	RT
Corrosion Resistance, Sulfuric Acid Conc. 5-10%	>20 mils/year	RT
Relative Wear Performance	Cold Abrasion	Excellent

Descriptive Properties	Corrosion Value	Excellent Comments
	Erosion	Good/Moderate
	Hot Abrasion	Excellent
	Impact	Not Recommended
	Metal to Metal	Excellent

## Contact Songhan Plastic Technology Co.,Ltd.

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