

## Weartech International WT-40 Nickel Hardfacing & Wear Resistant Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

**Material Notes:**

Applications: glass industry plungers and mold components  
Information provided by Weartech International

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Weartech-International-WT-40-Nickel-Hardfacing-Wear-Resistant-Alloy.php](http://www.lookpolymers.com/polymer_Weartech-International-WT-40-Nickel-Hardfacing-Wear-Resistant-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.30 g/cc	0.300 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	35 - 45	35 - 45	
Hardness, Vickers	100	100	
	@Treatment Temp. 760 °C	@Treatment Temp. 1400 °F	
	220	220	
	@Treatment Temp. 649 °C	@Treatment Temp. 1200 °F	
	260	260	
	@Treatment Temp. 538 °C	@Treatment Temp. 1000 °F	
	350	350	
	@Treatment Temp. 427 °C	@Treatment Temp. 800 °F	
	420	420	
	@Treatment Temp. 25.0 °C	@Treatment Temp. 77.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	15.5 µm/m-°C	8.60 µin/in-°F	
Specific Heat Capacity	0.418 J/g-°C	0.100 BTU/lb-°F	
Melting Point	<= 1010 °C	<= 1850 °F	
Liquidus	1010 °C	1850 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	2.0 %	2.0 %	

Component Elements Properties <small>Carbon, C</small>	Metric <small>Wt. %</small>	English <small>Wt. %</small>	Comments
Chromium, Cr	11 %	11 %	
Iron, Fe	2.0 %	2.0 %	
Nickel, Ni	82.4 %	82.4 %	
Silicon, Si	2.2 %	2.2 %	

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

## 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