

Weartech International WT-60 Nickel Hardfacing & Wear Resistant Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Applications: pump sleevesInformation provided by Weartech International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Weartech-International-WT-60-Nickel-Hardfacing-Wear-Resistant-Alloy.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	54 - 62	54 - 62	
Hardness, Vickers	100	100	
	@Treatment Temp. 760 °C	@Treatment Temp. 1400 °F	
	250	250	
	@Treatment Temp. 649 °C	@Treatment Temp. 1200 °F	
	430	430	
	@Treatment Temp. 538 °C	@Treatment Temp. 1000 °F	
	540	540	
	@Treatment Temp. 427 °C	@Treatment Temp. 800 °F	
	750	750	
	@Treatment Temp. 25.0 °C	@Treatment Temp. 77.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	14.6 µm/m-°C	8.10 µin/in-°F	
Specific Heat Capacity	0.418 J/g-°C	0.100 BTU/lb-°F	
Melting Point	<= 1040 °C	<= 1900 °F	
Liquidus	1040 °C	1900 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	3.0 %	3.0 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.70 %	0.70 %	
Chromium, Cr	14 %	14 %	
Iron, Fe	4.5 %	4.5 %	
Nickel, Ni	73.8 %	73.8 %	
Silicon, Si	4.0 %	4.0 %	

Descriptive Properties	Value	Comments
Corrosion Resistance, Hydrochloric Acid Conc. 5.65%	>50 mils/year	RT
	>50 mils/year	Boiling
Corrosion Resistance, Nitric Acid Conc. 25-65%	>20 mils/year	RT
Corrosion Resistance, Sulfuric Acid Conc. 5-10%	>20 mils/year	RT
Relative Wear Performance	Cold Abrasion	Excellent
	Corrosion	Good/Moderate
	Erosion	Good/Moderate
	Hot Abrasion	Good/Moderate
	Impact	Not Recommended
	Metal to Metal	Excellent

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