

Weartech International WT-32 Cobalt Hardfacing & Wear Resistant Alloy

Category : Metal , Nonferrous Metal , Cobalt Alloy

Material Notes:

Applications: engine valves and seats
Information provided by Weartech International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Weartech-International-WT-32-Cobalt-Hardfacing-Wear-Resistant-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.85 g/cc	0.320 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	32 - 46	32 - 46	
Charpy Impact	>= 8.13 J	>= 6.00 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear	14.6 µm/m-°C	8.10 µin/in-°F	
Specific Heat Capacity	0.423 J/g-°C	0.101 BTU/lb-°F	
Melting Point	<= 1302 °C	<= 2375 °F	
Liquidus	1302 °C	2375 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.7 %	1.7 %	
Chromium, Cr	26 %	26 %	
Cobalt, Co	32.9 - 35.9 %	32.9 - 35.9 %	
Iron, Fe	<= 3.0 %	<= 3.0 %	
Nickel, Ni	23 %	23 %	
Silicon, Si	1.4 %	1.4 %	
Tungsten, W	12 %	12 %	

Descriptive Properties	Value	Comments
Corrosion Resistance, Hydrochloric Acid Conc. 5.65%	<5 mils/year	RT
	>400 mils/year	Boiling

Corrosion Resistance, Nitric Acid Conc. 25-65% Descriptive Properties	<5 mils/year Value	RT Comments
	>400 mils/year	Boiling
Corrosion Resistance, Sulfuric Acid Conc. 5-10%	<5 mils/year	RT
	>400 mils/year	150 °F
Relative Wear Performance	Cold Abrasion	Not Recommended
	Corrosion	Excellent
	Erosion	Excellent
	Hot Abrasion	Not Recommended
	Impact	Excellent
	Metal to Metal	Excellent

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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