

Weartech International WT-694 Cobalt Hardfacing & Wear Resistant Alloy

Category : Metal , Nonferrous Metal , Cobalt Alloy

Material Notes:

Information provided by Weartech International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Weartech-International-WT-694-Cobalt-Hardfacing-Wear-Resistant-Alloy.php

Physical Properties	Metric	English	Comments
Density	9.04 g/cc	0.327 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	47 - 54	47 - 54	
Elongation at Yield	0.00 - 1.0 %	0.00 - 1.0 %	
Charpy Impact	<= 5.42 J	<= 4.00 ft-lb	As Cast

Thermal Properties	Metric	English	Comments
CTE, linear	13.7 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	7.60 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Specific Heat Capacity	0.385 J/g- $^{\circ}\text{C}$	0.0920 BTU/lb- $^{\circ}\text{F}$	
Melting Point	<= 1274 $^{\circ}\text{C}$	<= 2325 $^{\circ}\text{F}$	
Liquidus	1274 $^{\circ}\text{C}$	2325 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.90 %	0.90 %	
Chromium, Cr	28 %	28 %	
Cobalt, Co	43.1 - 46.1 %	43.1 - 46.1 %	
Iron, Fe	<= 3.0 %	<= 3.0 %	
Nickel, Ni	5.0 %	5.0 %	
Tungsten, W	19 %	19 %	
Vanadium, V	1.0 %	1.0 %	

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

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

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