

Wall Colmonoy COLMONOY® 83 PTA - Nickel-Chromium-Boron Matrix Alloy With Tungsten Carbide

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Nickel Alloy , Tungsten Alloy

Material Notes:

Description and Application: A tough nickel-chromium-tungsten-boron matrix alloy containing chromium carbides with the addition of extremely hard tungsten-carbide particles for excellent abrasive wear protection. Excellent edge retention. Specifically for plasma transferred arc (PTA) application. Information provided by Wall Colmonoy Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wall-Colmonoy-COLMONOY-83-PTA-Nickel-Chromium-Boron-Matrix-Alloy-With-Tungsten-Carbide.php

Physical Properties	Metric	English	Comments
Density	11.78 g/cc	0.4256 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	43 - 48	43 - 48	single pass
	50 - 55	50 - 55	double pass

Component Elements Properties	Metric	English	Comments
Boron, B	0.90 %	0.90 %	
Carbon, C	2.0 %	2.0 %	
Chromium, Cr	20.3 %	20.3 %	
Iron, Fe	1.4 %	1.4 %	
Nickel, Ni	40 %	40 %	As Balance
Silicon, Si	1.4 %	1.4 %	
Tungsten, W	34 %	34 %	

Processing Properties	Metric	English	Comments
Processing Temperature	1120 °C	2040 °F	fusing temperature

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