

Wall Colmonoy COLTUNG 1 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 nickel-chromium-boron matrix alloy rich in chromium boride is used to hold extremely hard tungsten-carbide particles. Produces rod-welded deposits with same chemistry as spray-applied Colmonoy® Nos. 75 or 705. Finished by grinding.

Information provided by Wall Colmonoy Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wall-Colmonoy-COLTUNG-1-Nickel-Chromium-Boron-Matrix-Alloy-With-Tungsten-Carbide.php

Physical Properties	Metric	English	Comments
Density	12.33 g/cc	0.4454 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	58 - 63	58 - 63	

Component Elements Properties	Metric	English	Comments
Boron, B	1.9 %	1.9 %	
Carbon, C	1.75 %	1.75 %	
Chromium, Cr	7.0 %	7.0 %	
Cobalt, Co	0.12 %	0.12 %	
Iron, Fe	2.2 %	2.2 %	
Nickel, Ni	45.88 %	45.88 %	As Balance
Silicon, Si	2.65 %	2.65 %	
Tungsten, W	38.5 %	38.5 %	

Processing Properties	Metric	English	Comments
Processing Temperature	1040 °C	1900 °F	fusing temperature

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