

Wall Colmonoy COLMONOY® 75 - Nickel-Chromium-Tungsten-Boron Matrix Alloy

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 holds extremely hard tungsten-carbide particles. Used primarily for protection from severe sliding abrasion. Finished by grinding. Method of Application: Spraywelder Information provided by Wall Colmonoy Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wall-Colmonoy-COLMONOY-75-Nickel-Chromium-Tungsten-Boron-Matrix-Alloy.php

Physical Properties	Metric	English	Comments
Density	11.25 g/cc	0.4064 lb/in ³	

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

Component Elements Properties	Metric	English	Comments
Boron, B	2.0 %	2.0 %	
Carbon, C	1.9 %	1.9 %	
Chromium, Cr	9.3 %	9.3 %	
Cobalt, Co	4.2 %	4.2 %	
Iron, Fe	2.6 %	2.6 %	
Nickel, Ni	47.7 %	47.7 %	As Balance
Silicon, Si	2.8 %	2.8 %	
Tungsten, W	29.5 %	29.5 %	

Processing Properties	Metric	English	Comments
Processing Temperature	1050 °C	1920 °F	fusing temperature

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