

Wall Colmonoy COLMONOY® 730 - Nickel-Chromium-Tungsten Matrix Alloy

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

Material Notes:

Description and Application: A tough nickel-chromium-boron matrix alloy holds extremely hard tungsten-carbide particles. Finer mesh tungsten carbide than Colmonoy 750. Used on pump plungers and sleeves for protection from fine-particulate abrasive conditions. Minimizes packing wear. Finished by grinding. **Method of Application:** Spraywelder, HVOF **Information provided by Wall Colmonoy Corporation.**

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wall-Colmonoy-COLMONOY-730-Nickel-Chromium-Tungsten-Matrix-Alloy.php

Physical Properties	Metric	English	Comments
Density	12.36 g/cc	0.4465 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	2.4 %	2.4 %	
Chromium, Cr	8.6 %	8.6 %	
Cobalt, Co	2.4 %	2.4 %	
Iron, Fe	2.8 %	2.8 %	
Nickel, Ni	40.5 %	40.5 %	As Balance
Silicon, Si	2.5 %	2.5 %	
Tungsten, W	38.9 %	38.9 %	

Processing Properties	Metric	English	Comments
Processing Temperature	1060 °C	1940 °F	fusing temperature

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