Wall Colmonoy COLMONOY® 56 PTA - Nickel-Base Hard-Surfacing Alloy With Chromium Boride

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

Material Notes:

Description: Colmonoy 56 PTA is a premium alloy specially formulated for plasma transferred arc (PTA) application on new and worn extrusion screws. High levels of chromium and carbon produce large populations of chromium carbides for superior abrasion and corrosion resistance. The optimized PTA formulation also has reduced boron and increased silicon for better weldability and puddle control.Applications: Colmonoy 56PTA is specifically formulated for overlaying the flights of new and rebuilt extrusion and injection molding screws. It also has applications in the food processing industry on feed screws, air locks and scraper blades. Colmonoy 56PTA is also available in other powder forms and as rod for application on extrusion screws, wear rings, shafts, sleeves cement gate valves, forming and drawing dies, and centrifugal pump parts. Information provided by Wall Colmonoy Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wall-Colmonoy-COLMONOY-56-PTA-Nickel-Base-Hard-Surfacing-Alloy-With-Chromium-Boride.php

Physical Properties	Metric	English	Comments
Density	4.33 g/cc	0.156 lb/in³	apparent
	8.01 g/cc	0.289 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	46 - 51	46 - 51	single pass
	53 - 58	53 - 58	double pass

Component Elements Properties	Metric	English	Comments
Boron, B	1.9 %	1.9 %	
Carbon, C	0.90 %	0.90 %	
Chromium, Cr	18 %	18 %	
Iron, Fe	5.4 %	5.4 %	
Nickel, Ni	68.5 %	68.5 %	As Balance
Silicon, Si	5.3 %	5.3 %	

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

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