Wall Colmonoy COLMONOY® 56 Hard-Surfacing Alloy Containing Wear-Resistant Chromium Borides and Carbides

Categories: Metal; Metal Matrix Composite; Nonferrous Metal; Nickel Alloy

Material Notes: **Description and Application:** Contains wear-resistant chromium borides and carbides. Between Colmonoy Nos. 6 and 5 in chemistry and hardness. Better ductility and impact resistance than No. 6. For plastic extrusion screws, shafts, sleeves. Finished with carbide tools and grinding.

Method of Application: Oxyacetylene, DC Electric Arc, GTAW, Spraywelder

Information provided by Wall Colmonoy Corporation.

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	8.18 g/cc	0.296 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	50 - 55	50 - 55	

Processing Properties	Metric	English	Comments
Processing Temperature	1029 °C	1885 °F	fusing temperature

Component Elements Properties	Metric	English	Comments
Boron, B	2.6 %	2.6 %	
Carbon, C	0.60 %	0.60 %	
Chromium, Cr	13.1 %	13.1 %	
Iron, Fe	4.4 %	4.4 %	
Nickel, Ni	75.5 %	75.5 %	As Balance
Silicon, Si	3.8 %	3.8 %	