

Bales Mold Service Nibore® Electroless Nickel - Boron Nitride Mold Coating

Category : Metal , Nonferrous Metal , Nickel Alloy , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

Nibore® is an electroless nickel phosphorus coating that incorporates boron nitride particles in a co-deposited nickel matrix. This unique process is formulated to produce a uniformly dispersed boron nitride deposit. Nibore™ boasts a 54 RC hardness, which can be increased to 67 RC after heat treating. The additional hardness adds to the unique capabilities of this engineered coating treatment. The extremely low coefficient of friction has proven valuable in high wear applications where galling and release are an issue. With a working temperature of 1250°F, this deposit will perform in the most extreme applications. Information provided by Bales Mold Service.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bales-Mold-Service-Nibore-Electroless-Nickel-Boron-Nitride-Mold-Coating.php

Physical Properties	Metric	English	Comments
Density	8.10 g/cc	0.293 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	54	54	As Plated
	67	67	After Heat Treatment at 550°F
Coefficient of Friction	<= 0.05	<= 0.05	

Thermal Properties	Metric	English	Comments
Melting Point	899 °C	1650 °F	
Maximum Service Temperature, Air	677 °C	1250 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	85.0 °C	185 °F	Applied Temperature

Descriptive Properties	Value	Comments
Phosphorus Content	4-6 wt.%	

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