

XADC-Armoloy Diamond-Chrome Composite Coating

Category : Metal , Metal Matrix Composite , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

XADC-Armoloy® combines the Armoloy® TDC chromium coating with spherical diamond particulates. The XADC-Armoloy® coating enhances the durability of components used in a wide range of applications from plastic injection mold tooling to aerospace applications that require long life expectancy, extreme wear protection, low frictional characteristics and corrosion protection. XADC-Armoloy® will not fracture from the basis metal unless the metal substrate itself fractures or fatigues. The absolute, positive adhesion that is created with the special application of XADC-Armoloy® is a major benefit to its users. Applied at temperatures under 200°F (100°C) there are absolutely NO changes in the basis metals that the XADC-Armoloy® coating is applied to. Like Armoloy® TDC, XADC-Armoloy® will adhere and perform well on all major ferrous and nonferrous basis materials. Aluminum, magnesium, and titanium are not considered good substrates for coating with Armoloy processes. Information provided by Armoloy of Western Pennsylvania.

Order this product through the following link:

http://www.lookpolymers.com/polymer_XADC-Armoloy-Diamond-Chrome-Composite-Coating.php

Physical Properties	Metric	English	Comments
Thickness	2.54 - 7.62 microns	0.100 - 0.300 mil	Recommended range
	1.02 - 17.8 microns	0.0400 - 0.700 mil	Possible range

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	98	98	
Coefficient of Friction, Dynamic	0.090	0.090	XADC-Armoloy® vs. XADC-Armoloy®; Sliding; No lubricants at 72°C
	0.14	0.14	XADC-Armoloy® vs. Steel; Sliding; No lubricants at 72°C
Coefficient of Friction, Static	0.12	0.12	XADC-Armoloy® vs. XADC-Armoloy®; No lubricants at 72°C
	0.15	0.15	XADC-Armoloy® vs. Steel; No lubricants at 72°C
Taber Abrasion, mg/1000 Cycles	4.66	4.66	Per Fed. Std/141

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	760 °C	1400 °F	
Minimum Service Temperature, Air	-240 °C	-400 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	<= 100 °C	<= 212 °F	Application Temp

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China