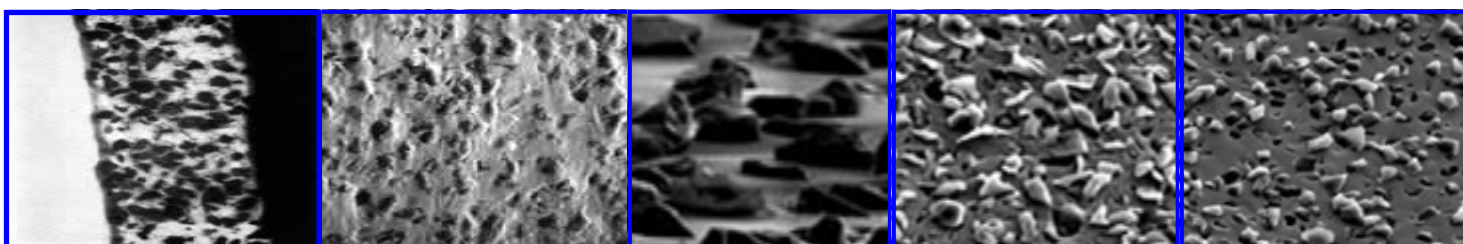




Diamonize-Plus is a hard uniform coating with a high coefficient of friction as needed per application. Techmetals can use this technology to attain a grit-like texture to improve wear or gripping. Diamonize-Plus metal alloy properties, in some applications, eliminate the requirement for additional texturing. Diamonize-Plus can be applied to all ferrous & most non-ferrous metals. Uniformity & accuracy of the deposit is maintained within +/- .0003. This is a leading technology and a friction-enhancing coating. The load transfer ability of frictional parts is limited by the friction coefficient of the mating material. Frictional transmission can be increased up to 300 percent. This can enhance a more lightweight and compact designs. This coating can open up new possibilities in automotive & engineering applications. Diamonize-Plus can be a superior choice in power train, transmission, drive technologies and other mechanical engineering or pulley applications. This application allows Pulley's to have better wear resistance & reduce slippage.



User Benefits

- **Diamond Surpasses the Hardness of all Materials**
- **Hard-Chrome Replacement**
- **Protect Parts & Tooling From Wear**
- **Uniformity of Thickness & No Post Machining**
- **Increase/Improve MTBF of Equipment**
- **Can prevent Premature Failure on Moving Parts**
- **More EPA Compliant than Chrome**
- **Can be Stripped and Recoated**
- **Increase Frictional Transmission by 300%**
- **Frictional Enhancement**
- **Texture on Molds**
- **Reduce Slippage**

Properties

Deposit Thickness

As Plated

.0025"-.008" +/- .0005

Texture

Smooth to 160-220 Grit

Hardness

900 Vickers

After Heat-Treatment

.0025"-.008" +/- .0005

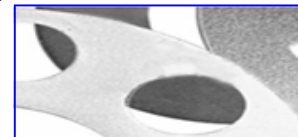
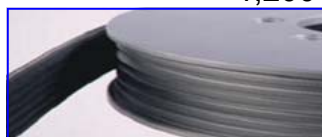
Smooth to a 160-220 Grit

1,200 Vickers

Industries & Applications

Metal Processing: Rollers

Automotive: Pulleys, Power-train, Transmissions & Drives



Molding: Molds, Texturing

Mining: Drilling Tools

Recreation Vehicles: Snow Mobile Clutches, Drive Pulleys

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Solving your problems with our solutions

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