

General Description:

This nanostructured Titanium Dioxide (n-TiO₂) coating is used to enhance the ability of MOGAS' metal-seated ball valves to operate and isolate in extreme environments where corrosive and abrasive solids has made them the preferred product for isolating and directing the flow of hot slurry within HPAL (i.e., Ni/Co) and POx (i.e., Au and Cu) autoclave systems.

The M7 coating has demonstrated superior abrasion and corrosion resistance in both electrochemical and autoclave slurry testing as compared with other commercial ceramic coatings when applied on industry accepted base materials.

Application Method:

Proprietary (Patented)

Typical Chemistry:

Titania > 99%

Typical Mechanical Properties:

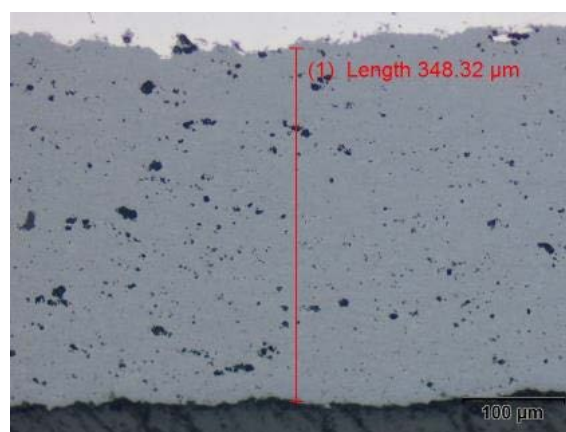
Hardness >HV 800

Finished Thickness 0.006" to 0.010"

Porosity <1 3/4% max.

Useful Temperature up to 1000°F (540°C)

Bond Strength >10,000 psi



Confidentiality Note:

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