



MOREUP TIME

HVOF Coating

High Velocity Oxygen-Fuel Thermal Spray

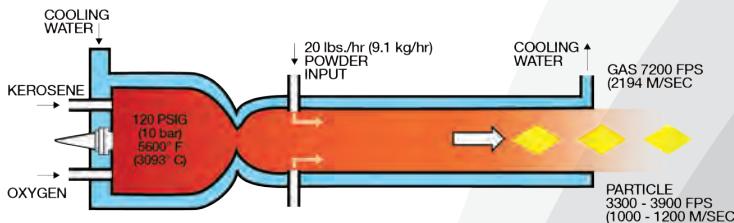
WHY HVOF COATING OVER TRADITIONAL COATINGS?

Our HVOF thermal spray coating system produces the absolute highest quality of coatings available today. These HVOF coatings result in: hardness levels in excess of 70 HRC, bond strengths measurements of over 12,000, plus exceptionally low porosity levels of under 1%. The basic rule for achieving high coating quality is: High Combustion Pressure = High Gas Velocity = High Particle Velocity = High Coating Quality. Simply put, your best choice in reducing your expenses associated with wear is to choose our HVOF coatings - no other methods of coating come even close to our HVOF coatings.

HOW DO WE DO IT?

With our latest state-of-the-art equipment, the TAFE JP-8000 with Robotics and Data Acquisition (the world's most sophisticated HVOF thermal spray system available today), we produce coatings with extremely high coating density and low oxide content. Low oxide content is simply due to the particles having less time in the atmosphere to oxidize. This high velocity also packs the particles more tightly, reducing porosity and creating a denser coating. This is especially beneficial in corrosion resistance applications where a denser barrier is needed and when ground in our extensive machine shops, the denser coatings produce an even better finish.

Cross-Section of HVOF Spray Gun



BENEFITS OF USING HVOF COATINGS

- Crankshaft reconditioning or conditioning
- Corrosion protection
- Fouling protection
- Repairing damaged surfaces
- Wear control: either hardfacing (wear-resistant) or pure metals
- Temperature/oxidation protection

ABOUT CADORATH

Over 60 years of experience - our internationally recognized coating and aerospace facilities allow us to offer a wide variety of innovative special processes and superior engineered deposits that exceed our customers' expectations. We dedicate teams of engineers to work with you to develop solutions that expand the markets for cost-effective thermal spray applications. With our in-house full service metallurgy lab we can guarantee a superior coating quality over our competitors.

Cadorath

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WE'RE THE EXTREME WEAR SPECIALISTS

Our wear resistant coatings will reduce your downtime & save you money.