

DuraStell™

DuraStell is a family of high performance metallic coatings for use in critical applications where corrosion and wear limit part life and reliability, and where conventional alloys and application methods cause excessive part distortion or degradation of high performance base materials. The coating can be provided with short turnaround through the network of local Deloro Stellite facilities in strategic locations around the world.

Coating Characteristics

- Ability to weld heat input sensitive materials such as non magnetic alloys
- Low distortion on finished or machined components
- Low dilution
- Excellent as welded surface finish
- Low distortion of components due to low heat input
- Control of as deposited thickness to +/- 0.3mm to minimize grinding

DuraStell Advantages

- Fully dense coating for excellent corrosion resistance
- Metallurgical bond to substrate = no spalling of coating
- Economical application method compared to Lasers or HVOF
- Carbide types and amount as well as matrix chemistry can be developed to meet application and economic requirements



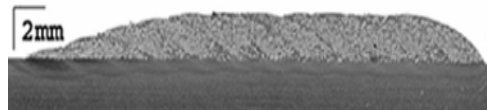
Slip on wearbands welded with minimal distortion



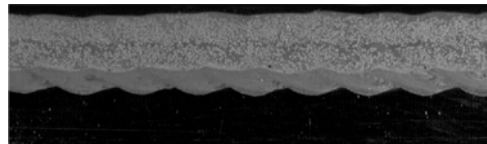
Heat sensitive high strength non-magnetic materials can be safely coated



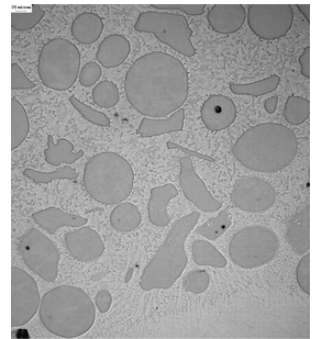
Stabilizers and other complex shapes can be addressed by precision CNC equipment



Single layer deposit 65% Spherical WC 35% NiCrB



3 layer coating - 3mm thick, 1 mm IN 625+2mm Stelcar 9370



Minimal Carbide Dissolution Uniform hard particle distribution

Deloro Stellite North American Coating Services Location

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