

PRODUCT APPLICATION

PRODUCT APPLICATION NO. ECGNAGHZOZO

LaserBond[®] E-Clad[™]

An E-volutionary Alternative to Hard Chrome Plating.

The latest surface engineering product offer is LaserBond® E-Clad[™]. LaserBond® E-Clad[™] is a metallurgically bonded overlay suitable to replace Hard Chrome on cylindrical surfaces.

- Environmentally superior protecting people and the environment by not producing carcinogenic Hexavalent Chromium
- Environmentally superior the cladding method uses less than 25% of the energy used in the traditional hard chroming process
- Extended wear life components have significantly better abrasion, impact (metallurgical bond) and corrosion (less porosity) resistance meaning your equipment will operate for longer
- Effective wear life a superior cladding means fewer planned and unplanned shutdowns due to component failure
- Express delivery times a faster cladding process without the delays inherent in electroplating
- Efficient application component parts for cladding are not limited by component dimensions or desired thickness

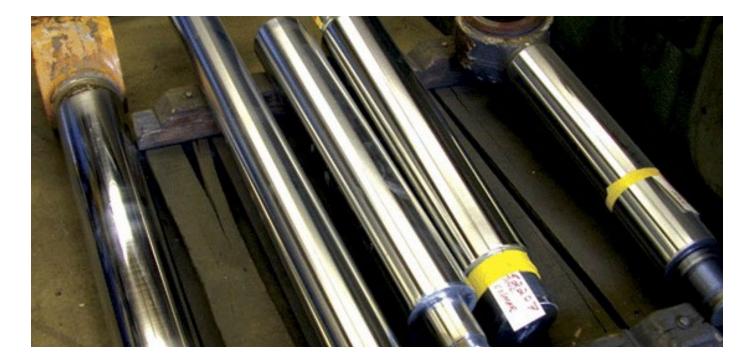






Legend





The Key Features and Benefits of E-Clad are:

- 1. LaserBond[®] E-Clad[™] is a Laser Cladding overlay of a hard metallic alloy.
- 2. It has a metallurgical bond meaning that it is significantly more impact resistant than the chemical bond produced by the hard chroming process:
 - a. During independent testing (UniSA, Future Industries Institute) E-Clad[™] provided a wear rate
 3 – 10 times lower than for commercially available hard chrome coatings as measured by standard Pin-on-Disc testing.
 - b. E-Clad[™] has no interconnected porosity or cracks resulting in superior corrosion resistance.
 - c. In electrochemical corrosion testing with 3.5%
 NaCl solution, E-Clad[™] showed corrosion rates
 2–3 times better than hard chrome coatings.
- 3. LaserBond[®] E-Clad[™] is delivered in a much more environmentally sustainable and safer manner than the hard chrome process.
- 4. E-Clad[™] can be applied in thin applications (and up to 10mm) more rapidly than hard chroming and therefore turn-around times can be reduced.

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