CRA and Wear Claddings for the Oil and Gas Industry

CermaClad™ is a patented process that uses high energy density IR fusion to metallurgically bond a layer of API compliant metal alloy such as 625, 316L, and nickel tungsten carbide or similar to a steel substrate. Due to input controllability and a scalable rate of application, a full range of long term functional alloys for chemical, temperature, and abrasion resistance can be applied. The result is an unparalleled level of performance.

With CermaClad™ products, a true metallurgical bond is developed without significant cladding dilution or carbide decomposition as occurs with other weld cladding processes. CermaClad™ can be applied orders of magnitude faster than competing weld cladding processes, and can be used with seamless pipe in diameters 8” and above.

CermaClad™ has an application rate 10 to 100 times faster than advanced thermal/plasma or PTA/laser cladding with much greater uniformity and reliability.

CermaClad™ - a true advancement in metal weld fusion technology

24112 Rockwell Drive, Euclid, OH, 44117  Phone: 216-453-0866
WWW.ME SOC OAT.COM
CermaClad™ - Unparalleled Benefits

Metallurgical bond
- Unprecedented durability and resiliency

10 to 100 times faster than current cladding technologies
- Cost Competitive

Performance and Reliability
- Refined grain size and controlled uniform fusion process
- Little to no substrate back mixing
- Low thermal impact, does not degrade high strength pipe

Large scale application process
- Pipe plant or mill production cladding capability

Low environmental risk and compliance
- Wide range of material compositions
  - High corrosion, wear, and temperature resistance
  - Application thickness from 0.1mm mils to 3mm per pass
  - Application of multi layer compositions and thicknesses

Uniform, smooth finish – does not require post processing

Mesocoat is a global leader in metal alloy coating and cladding technology. Its breakthrough PComP™ nanocomposite cermet hard chrome alternatives and CERMACLAD™ CRA and wear claddings lead the industry.

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