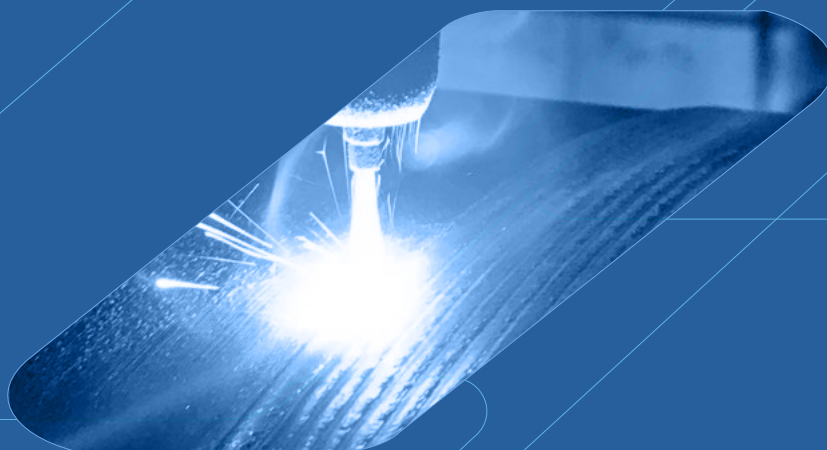
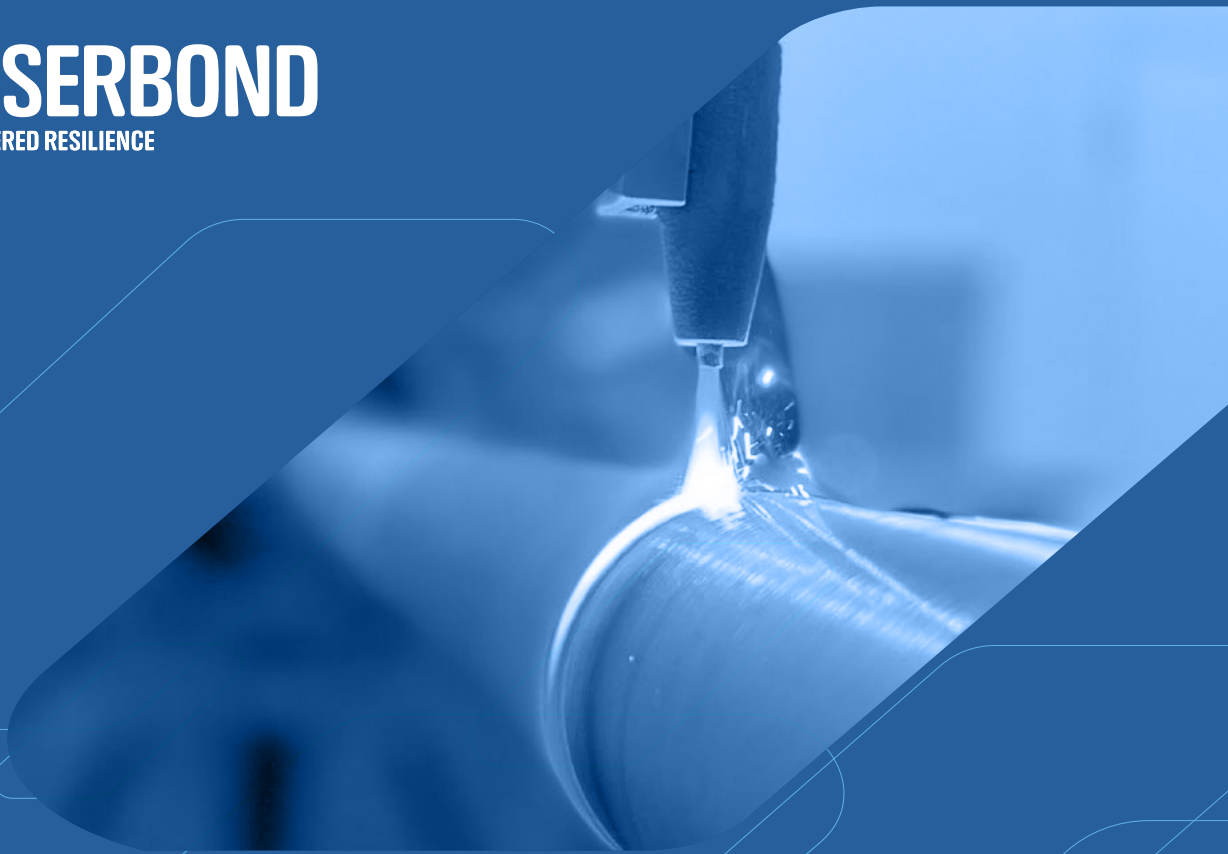




PRODUCT APPLICATION

**Laserbond<sup>®</sup>**  
**X-Clad**

# The latest surface engineering product offer is Laserbond® X-Clad



**Extreme Wear Protection for Severe Service** X-Clad is a premium Laser Clad surface engineered with fine Tungsten Carbide (WC) - up to 70% by weight, delivering hardness up to 1000 HV. Designed for the most demanding environments, X-Clad provides exceptional abrasion, wear, and corrosion resistance.

## Key Benefits

1. Superior wear resistance
2. No interconnected porosity
3. Good corrosion resistance
4. Tailored coating thickness (from 0.5 mm)

## Typical Applications

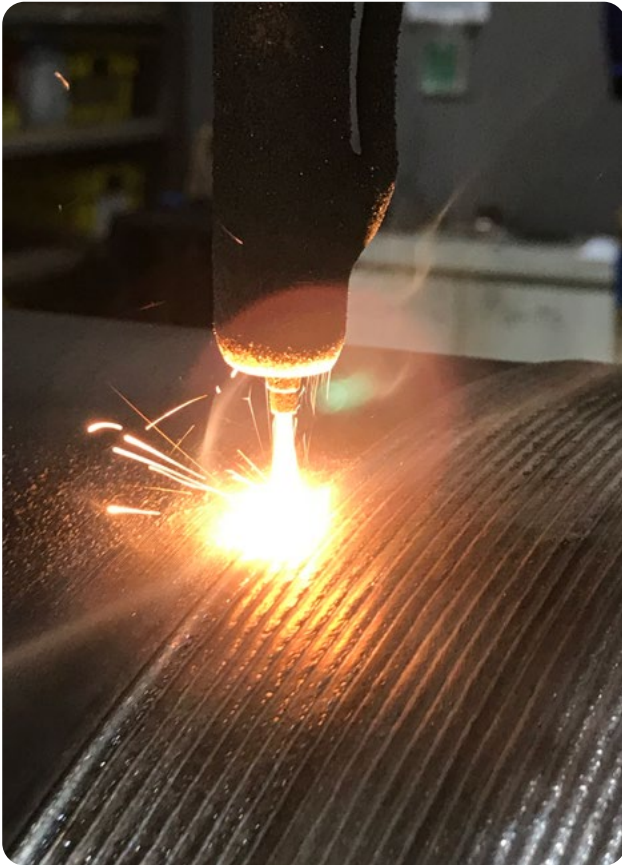
- Pump components
- Minerals processing equipment
- Food processing equipment (FDA approved)
- Boiler tubes
- Nozzles and valves
- Oil & gas industry components

## X-Clad in Detail

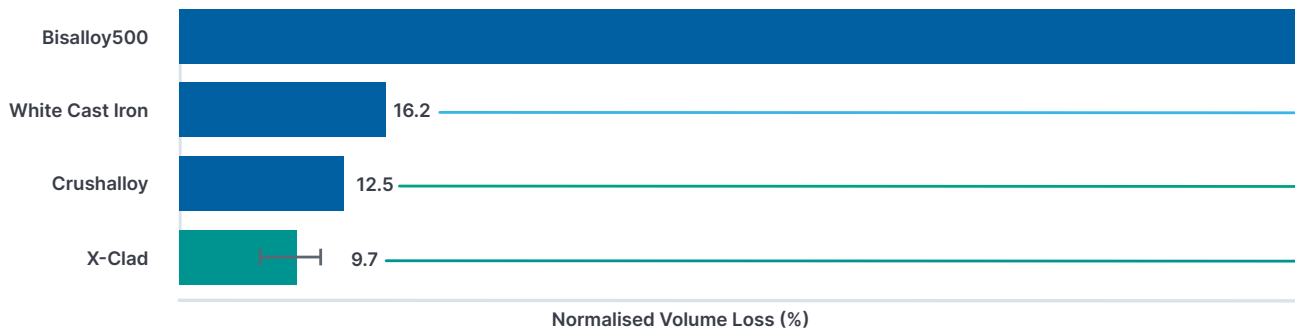
Advanced Laser Cladding Technology X-Clad is a metallurgically bonded tungsten carbide overlay in a hard nickel-based matrix. The use of fine WC particles in X-Clad enables higher carbide content, delivering superior and more uniform wear resistance with a smoother wear surface. Enhanced impact resistance, negligible porosity, and stable chemistry provide excellent performance in abrasive, erosive, and corrosive environments.

## Designed for Sustainable Manufacturing

- Reduced use of critical minerals
- Lower energy consumption
- Improved cost efficiency



## WEAR RATE ASTM G65-A



The graph shows the independently tested wear results according to standard ASTM G65-A, known as Rubber Wheel Test. The wear plate material Bisalloy®500 serves as a reference. The volume loss of White Cast Iron, Crushalloy and X-Clad is 16.2%, 12.5% and 9.7%, respectively, relative to Bisalloy® 500. That means the service life of X-Clad under abrasive conditions is more than 10x of the wear plate material.

## About Laserbond

We are a specialist surface engineering company, founded in 1992, that focuses on the development and application of materials, technologies and methodologies to increase operating performance and wear life of capital intensive machinery components. Our surface engineering technology has applications across many industries, such as resources and energy, agriculture, advanced manufacturing, defence and infrastructure construction.



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