APPLICATION BULLETIN



Conforma Clad[™] Solutions for Petrochemical Applications

Pumps

Extend the life of your components in high-temperature erosive, abrasive, and heavy catalyst mediums.

- FCC bottoms
- Hot oil
- Clarifier
- Catalyst-entrained medium
- CasingsImpellers
- Back platesWear sleeves







Prolong life in erosive and abrasive environments. Our formulas work best when catalyst or small particle erosion limits other solutions.

- Distillation
- FCC
- Fluidized bed
- LC finers and more

Conveyance and Tubes

Protect your valves, piping, and tubes in high-wear erosive or abrasive environments.

- Get up to 5x more life
- Safeguard pendants, u-bends, and complex shapes
- High coefficient of heat transfer
- Excellent ability to withstand severe thermal shock
- Linear wear offers predictable life extrapolation



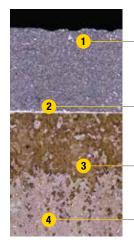


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APPLICATION BULLETIN

Cladding Photomicrograph



CLADDING

Dense tungsten carbide loading with uniform carbide distribution. High wear resistance with predictable wear rates and continuous operation up to 1900° F. **No interconnected porosity.** Superior corrosion and impact resistance.

BOND LINE

True metallurgical bond (>70,000 psi) with high

interparticle bond strength. Provides unsurpassed strength and prevents chipping, flaking, and check-cracking.

DIFFUSION ZONE

Minimal dilution. Substrate retains uniform properties in diffusion zone.

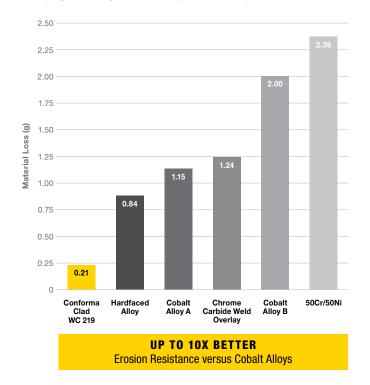
SUBSTRATE

Heat treatable. After cladding process to restore substrate's mechanical properties.

Performance Data

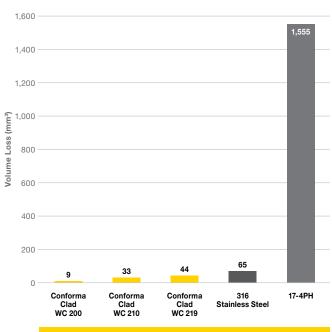
EROSION TEST

90° Impingement Angle, 240 ft/sec (30-minute test)



CORROSION TEST (ASTM G31)

1% Sulfuric Acid at 212° F (100° C)



UP TO 7X BETTER Corrosion Resistance versus Stainless Steel

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FOR FURTHER INFORMATION

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