



# Introducing Kennametal Conforma Clad® Screens

*...extend the life of SCR popcorn screens five to eight times longer than stainless steel!*

- **Superior Erosion Resistance**

Kennametal Conforma Clad cladding provides significantly higher erosion resistance versus stainless steel. Our cladding enables the substitution of less expensive carbon steel screens for more costly stainless steel screens.

- **Metallurgical Bond**

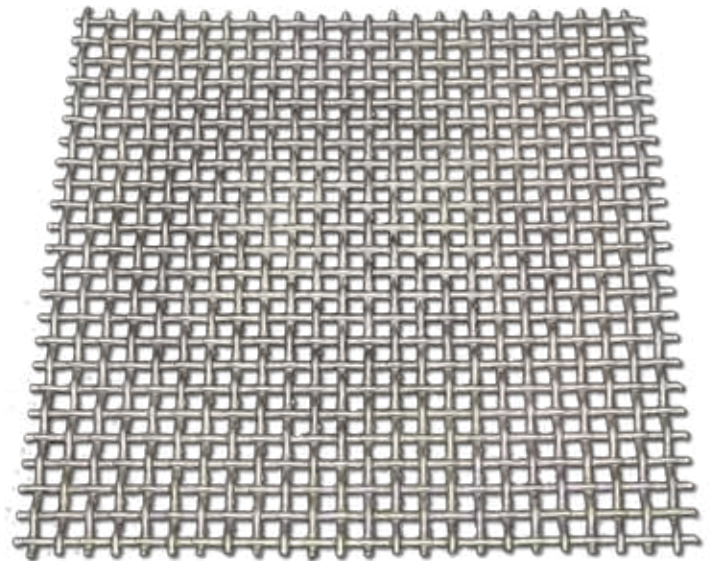
Much more resistant to impact than thermal spray coatings.

- **Advanced Cladding Process**

The Kennametal Conforma Clad proprietary process blends hard tungsten carbide particles and tough nickel chrome particles to create a durable, high-density cladding. Applied to components in a controlled atmosphere brazing furnace, the tungsten carbide particles metallurgically bond to the nickel chrome lattice and substrate component, preventing spalling, chipping, and peeling.

- **Proven Results**

It would take an inch of chrome carbide weld overlay or three inches of plain carbon steel to equal the erosion resistance provided by 1/16" (1.5 mm) of Kennametal Conforma Clad cladding.



Common Screen Types



Woven Mesh



Wedge Wire and Grates



Expanded Diamond



Perforated

## Technology

Kennametal Conforma Clad's tungsten carbide cladding provides unmatched resistance against abrasion, impact, erosion, and corrosion. Other types of protection may guard against one form of wear, but only Kennametal Conforma Clad cladding protects against multiple modes of wear - and our application creates a true metallurgical bond. Kennametal Conforma Clad screen capabilities include screens up to four feet by 12 feet (longer lengths may be possible), with screen openings 1/4-inch and larger (screen opening size may need to be adjusted to accommodate coating thickness).

## Proven Results

One coal-fired power plant installed stainless steel screens to protect its SCR equipment. In less than six months, the screens were torn apart and had to be replaced. Kennametal Conforma Clad screens were then used and after nine months, the screens showed little wear.



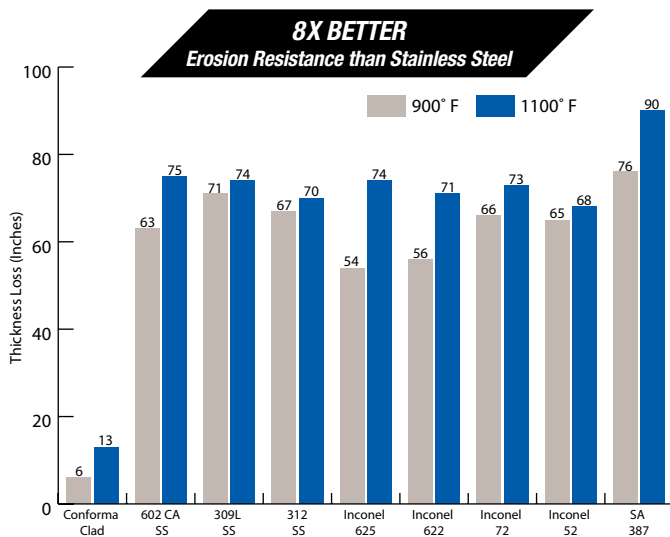
*Stainless steel screens after less than six months performance.*



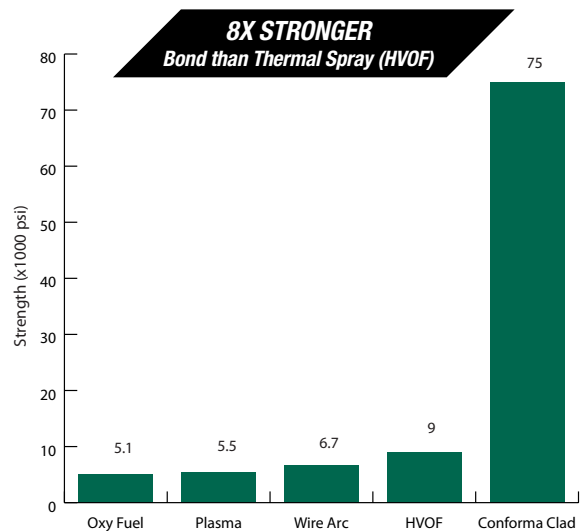
*Kennametal Conforma Clad screens after nine months.*

## Performance Data

### Erosion Resistance Testing (EPRI)



### Bond Strength Comparison



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