KENNAMETAL®
CONFORMA CLAD®

Application Bulletin

Introducing
Kennametal Conforma Clad® Boiler Tubes

LASTS 10 TIMES LONGER

...last 10 times longer than traditional wear solutions!

Erosion Protection in Sootblower Lanes
- Eliminates need for tube shields
- Composite/Profiled Cladding
- Proprietary process ensures consistent thickness and density

Extended Predictable Life in Fluidized Beds
- Linear wear offers predictable life extrapolation
- Minimal dilution ratio,true metallurgical bond
- Hot erosion 10X Inconel 622, 11X 312SS weld overlay

Random 22 ft. Lengths Available
- Meets the requirements of the ASME Boiler and Pressure Vessel Code (S Stamp)
- Inventory programs available
- Pendants, U-bends, complex shapes clad after fabrication

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Technology

Kennametal Conforma Clad can help you reduce the risk of boiler tube leaks by protecting your replacement boiler tube segments from severe wear. Our cladding withstands the extremes of thermal shock, erosion, abrasion, corrosion and impact — and because our application process creates a true metallurgical bond, it is not subject to chipping and spalling.

Custom Boiler Tube Solutions

Kennametal Conforma Clad will work closely with you to develop a wear solution for your boiler tubes. In addition, our brazed tungsten carbide wear protection can be applied to a variety of industrial components that are affected by abrasion, corrosion and erosion. Our team of application and material engineers is available to evaluate your application and recommend a cost effective solution today.

Superheater Cross Over Leg

Boiler Tube Cladding Specifications

	Dimensions	
	Diameter Range	Length Range
Inside Diameter (ID)	3/4" - 12"	1/2" - 4'
Outside Diameter (OD)	3/4" - 12"	1/2" - 24'

Cladding Specifications	
Substrates	Cladding can be applied to most carbon steels, stainless steels and alloy steels.
Temperature	Continuous operation at temperatures up to 1900 degrees F (1038 degrees C) with nominal performance impact. Able to withstand transients in excess of 2000 degree F.
Chemical Resistance	Compatible with chemicals commonly found in coal and fly ash, including hydrochloric acid, hydrogen fluoride and sulfuric acid.

For questions, request for quotations, or to place an order, please contact our Power Generation Application Engineering team at 888.289.4590 (toll free) or 812.948-2118.

We need the following information to process your quotation:

- Component drawing or the actual component, along with dimensions (length, width, height, OD, ID)
- Substrate or material type. If a casting is involved, please provide material composition.
- Type (abrasive, corrosive, erosive) and location of wear
- Current wear protection
- Explanation of the application, including operating conditions (temperature, pressure, chemical resistance, flow rates, etc.)
- Material requirements (hardness, surface finish, tensile strength)
- Quantity required, including annual unit volumes

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Place Your Order Now

contact us at **888.289.4590** or at **812.948.2118.**