



Kennametal Conforma Clad[®] Food & Feed Extruder Components

LASTS FOUR TO EIGHT TIMES LONGER

***...for increased service life in the
most extreme extrusion processes!***

- **Extend Component Life**
Superior abrasion and corrosion resistance reduces wear and improves component life four to eight times longer than unprotected equipment.
- **Produce Consistent Quality**
Protecting critical equipment tolerances permits tighter process control, giving you more consistent product quality and throughput.
- **Reduce Maintenance Costs & Downtime**
Our tungsten carbide protection greatly increases component life, resulting in fewer rebuilds and less unscheduled downtime.
- **Lower Cost per Ton**
Longer component life, consistent quality, less downtime and reduced maintenance costs creates a lower production cost per ton.



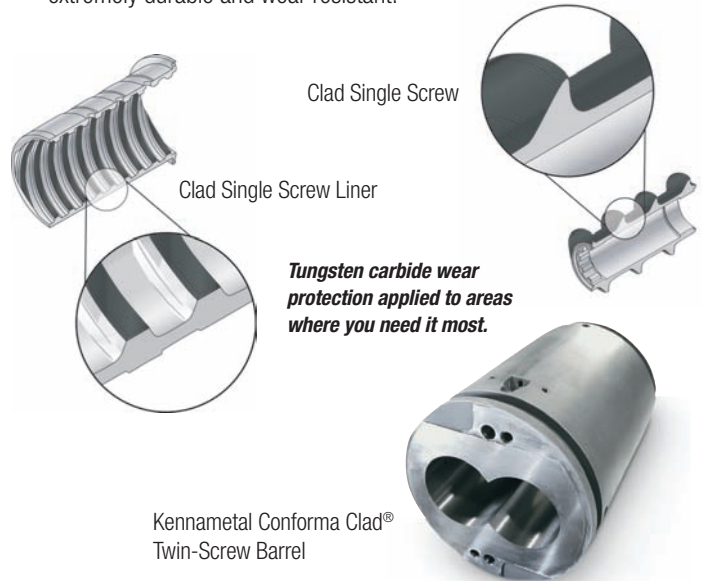
Kennametal Conforma Clad is a leading provider of severe wear solutions for applications experiencing extreme abrasion, corrosion and erosion. We manufacture wear-protected replacement barrels, liners and screw elements for virtually all OEMs. With over 14 years of experience protecting extrusion equipment, Kennametal Conforma Clad can design a custom wear solution suited for your unique operating conditions.

Our proprietary cladding technology metallurgically bonds tungsten carbide to component substrates, creating a hard, wear-resistant barrier. Our cloth delivery system enables densely-packed tungsten carbide to be uniformly applied to complex geometries, providing a protective barrier that wears at a uniform and predictable rate. Kennametal Conforma Clad® cladding can be applied to fully-fabricated or customer-supplied components.

Kennametal Conforma Clad® Wear-Protected Components	
▶ Screws & Liners	▶ Shear Locks/Lobes
▶ Barrels	▶ Stationary Bearings
▶ Dies	▶ Elbows
▶ Wear Plates	▶ Material Handling

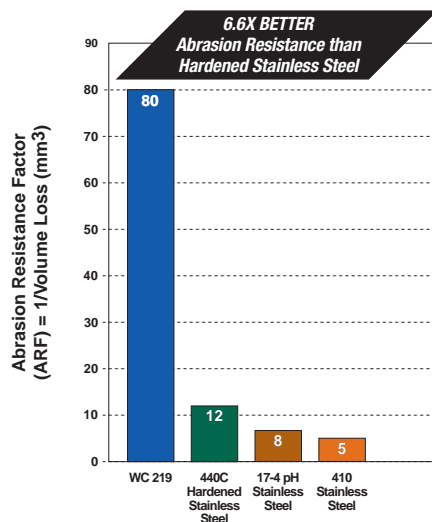
Flexible Tungsten Carbide Cloth

The Kennametal Conforma Clad® process begins with a flexible organic cloth embedded with tungsten carbide particles. This unique cloth technology allows our wear protection to perfectly conform to complex geometries, such as screw surfaces. Kennametal Conforma Clad's infiltration brazing process metallurgically bonds the tungsten carbide to the base material. The result is a hard, protective cladding that is extremely durable and wear resistant.

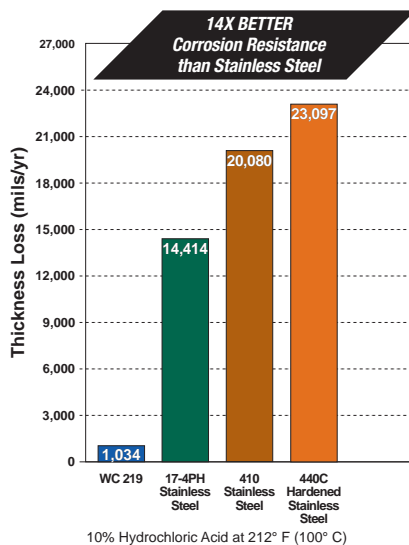


Performance Data

Dry Sand Abrasion Test (ASTM G65)



Corrosion Test (ASTM G31)



WC 219 Cladding Properties

Total carbide loading	62%
Density (lb/in ³)	0.40
Thermal Conductivity (BTU in/h·ft ² ·°F)	170
Metallurgical Bond Strength (psi)	>70,000
Porosity	<3%
Rockwell Hardness (HRC)	56-62

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