

The next level in wear resistance, **JADCO FLEXWEAR™** is an exceptional process used to create a metallurgical bond between tungsten carbide and the substrate via infiltration brazing. **FLEXWEAR™** uses tungsten carbide and a nickel brazing alloy in the form of “cloth” to make cladding complex shapes possible. The tungsten carbide filled coating has high levels of abrasion and erosion resistance due to the small particles used.

Mechanical Information

JADCO FLEXWEAR™’s typical hardness is up to 72 HRC. The tungsten carbide is uniformly bonded and distributed throughout the nickel alloy matrix. The resulting coating has a smooth surface with very little to no porosity. The braze process is done at approximately 2000°F. Coating thickness ranges between 0.040” and 0.120”. JADCO FLEXWEAR™ is resistant to corrosion and erosion at elevated temperatures.

Applications



Metallurgical Bond



Complex Geometries



Grinding Capabilities

Applications

- » Impellers
- » Fan Blade Liners
- » Nozzles
- » Debarking Tips
- » Wear Sleeves
- » Mixer Blades
- » Conveyor Flights
- » Concrete Pumps
- » Scraper Blades
- » Pipe/Elbow IDs

Industries Served

- » Power Generation
- » OEM
- » Oil and Gas
- » Mining
- » Plastics
- » Pulp and Paper
- » Food Processing
- » Agriculture
- » Steel Mills

TYPICAL CHEMISTRY %			
Tungsten Carbide (WC) 60 - 65	Nickel (Ni) 29 - 35	Chromium (Cr) 4 - 5	Boron (B) 0 - 1

Features

- » Light weight
- » Superior abrasion resistance to Chromium Carbide Overlay
- » Superior corrosion resistance to stainless steel
- » Increased resistance to erosion compared to stainless steel
- » Higher temperature resistance than 304 stainless steel

Benefits

- » Longer Life
- » Less Downtime
- » Increased Production
- » Reduce Maintenance Costs
- » Increased Profitability

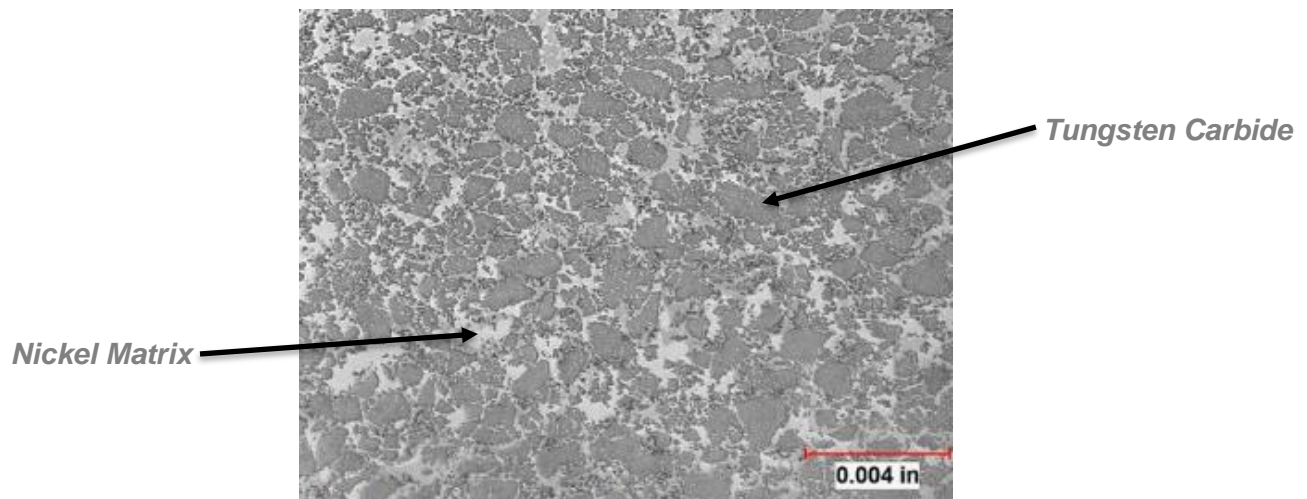


Photo 1: Magnification: 200X; Unetched