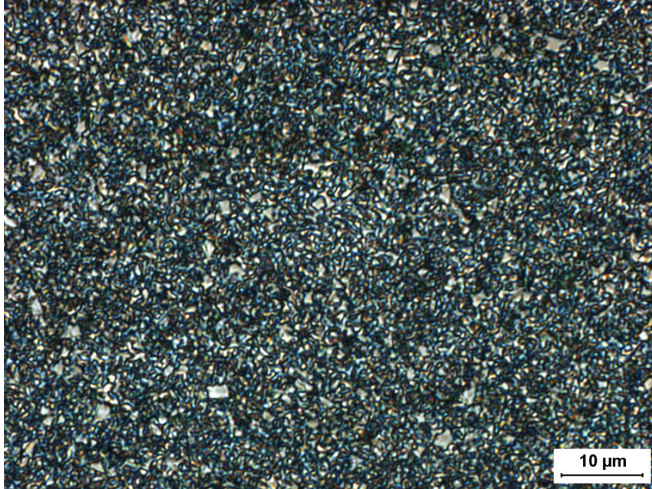




GC-0004



Microstructure

Composition

Tungsten Carbide (1.3 micron)	89.0%
Cobalt	7.0%
Tantalum Carbide	4.0%

Physical Properties

Hardness, HRA (ASTM B294)	91.7 - 92.7
Density, g/cc (ASTM B311)	14.72 - 14.83
Average Transverse Rupture Strength, psi (ASTM B406)	465,000
Typical Porosity (ASTM B276)	A02-B00-C00

PERFORMANCE CHARACTERISTICS

	LESS				MORE
Wear Resistance	■	■	■	■	□
Impact Resistance	■	□	□	□	□
Galling Resistance	■	■	■	■	□
Corrosion Resistance	■	■	□	□	□

*To ensure the highest metallurgical quality,
General Carbide processes all grades in
sinter-HIP furnaces.*

Grade Attributes

The fine particle size of the carbide grains coupled with the low binder content ensures excellent resistance to abrasive wear. The presence of the tantalum carbide addition (4%) provides a high resistance to galling/adhesive wear.

Typical Applications

- > Punches
- > Dies
- > Cutters
- > Forming tools
- > Bushings
- > Miscellaneous Wear Parts



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