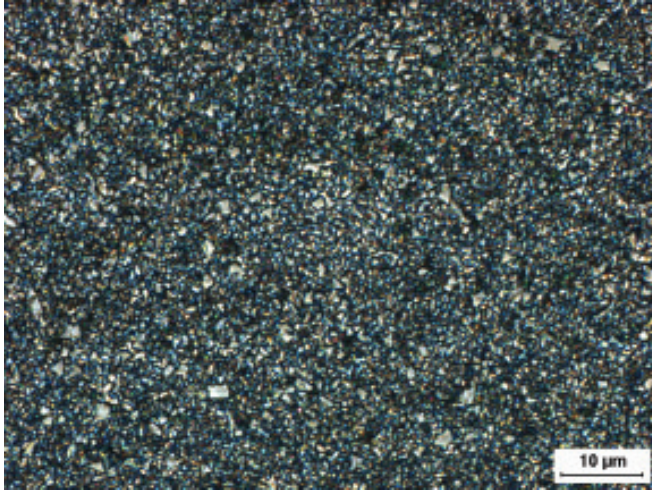


GC-0004



Microstructure

Composition	
Tungsten Carbide (Fine)	89.0%
Cobalt	7.0%
Tantalum Carbide	4.0%

Physical Properties	
Hardness, HRA (ASTM B294)	91.7 - 93.2
Density, g/cc (ASTM B311)	14.65 - 14.87
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	■ ■ □ □ □

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

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

Please visit our website for the latest grade specification information.