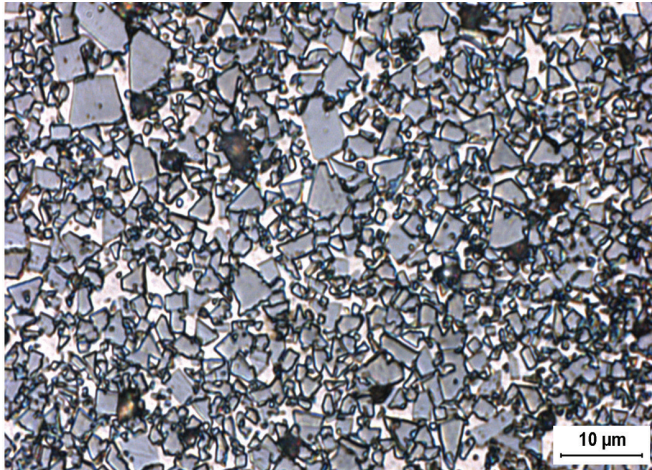


GC-613CT



Microstructure

Composition

Tungsten Carbide (6.0 micron)	83.0%
Cobalt	13.0%
Tantalum Carbide	3.0%
Other	1.0%

Physical Properties

Hardness, HRA (ASTM B294)	87.9 - 88.9
Density, g/cc (ASTM B311)	14.00 - 14.12
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 coarse grain structure coupled with medium binder content provides this grade with good wear resistance and the capability to withstand moderate impact loads. A tantalum carbide addition adds a measure of lubricity and resistance to galling in all wear areas. The presence of a corrosion-resistant additive provides adequate resistance to environmental corrosive attack (leaching) of the binder metal.

Typical Applications

- > Powder Metal Dies (Wire EDM)
- > High Impact Punches
- > WEDM Blocks