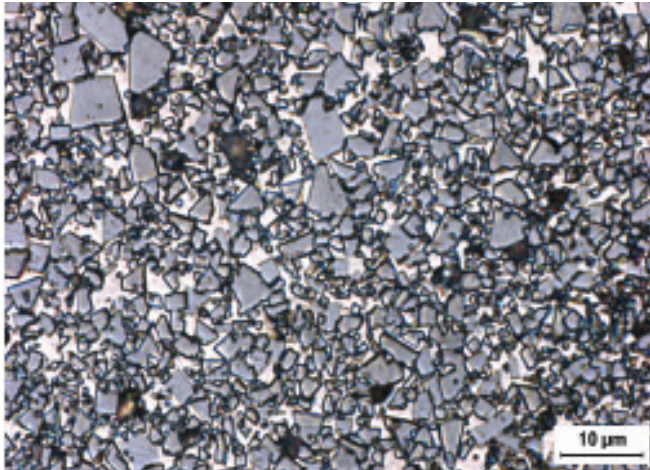


# GC-613CT



**Microstructure**

## Composition

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

## Physical Properties

Hardness, HRA (ASTM B294)	87.8 - 89.3
Density, g/cc (ASTM B311)	13.92 - 14.11
Average Transverse Rupture Strength, psi (ASTM B406)	465,000
Typical Porosity (ASTM B276)	A02-B00-C00

## PERFORMANCE CHARACTERISTICS

	LESS	MORE
<b>Wear Resistance</b>	■ ■ □ □ □	
<b>Impact Resistance</b>	■ ■ ■ □ □	
<b>Galling Resistance</b>	■ ■ ■ □ □	
<b>Corrosion Resistance</b>	■ ■ ■ □ □	

*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

**Please visit our website for the latest grade specification information.**