

# GC-618CT



**Microstructure**

## Composition

Tungsten Carbide (Coarse)	78.0%
Cobalt	18.0%
Tantalum Carbide	3.0%
Other	1.0%

## Physical Properties

Hardness, HRA (ASTM B294)	86.5 - 88.0
Density, g/cc (ASTM B311)	13.46 - 13.65
Average Transverse Rupture Strength, psi (ASTM B406)	450,000
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

This coarse grain structure coupled with a medium binder content provides an impact resistant grade with simultaneous good resistance to fatigue failure. The tantalum carbide additive ensures high resistance to galling.

## Typical Applications

- > Metalforming Punches
- > Dies
- > Heading Die Inserts

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