

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
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

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.