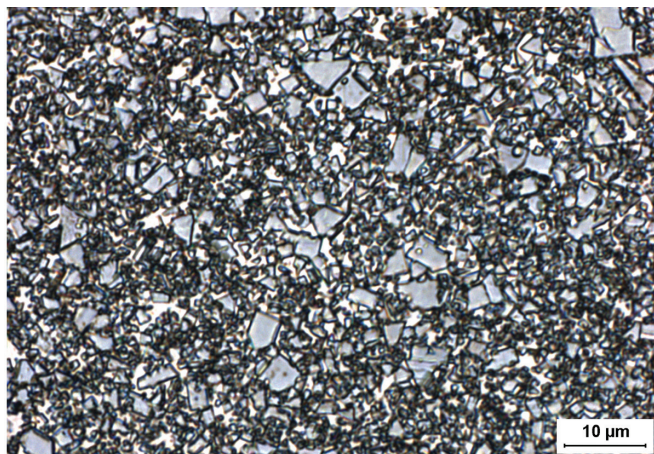


## GC-612M



**Microstructure**

### Composition

Tungsten Carbide (Mixed)	88.0%
Cobalt	12.0%

### Physical Properties

Hardness, HRA (ASTM B294)	88.0 - 89.5
Density, g/cc (ASTM B311)	14.21 - 14.42
Average Transverse Rupture Strength, psi (ASTM B406)	510,000
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>	■	□	□	□

### Grade Attributes

The coarse and fine tungsten carbide grain combination provides this grade with both high mechanical properties and moderate wear resistance. The medium cobalt content gives this grade moderate impact resistance.

### Typical Applications

- > Wire-Flattening Rolls
- > Hot Aluminum Extrusion Dies

*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.**