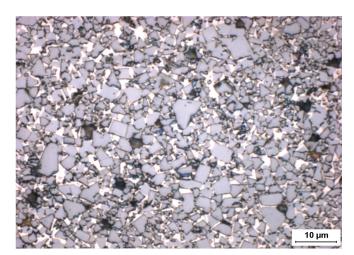


## **GC-411CT**



**Microstructure** 

| 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.

| Composition               |       |  |
|---------------------------|-------|--|
| Tungsten Carbide (Coarse) | 86.0% |  |
| Cobalt                    | 11.0% |  |
| Tantalum Carbide          | 2.0%  |  |
| Other                     | 1.0%  |  |

| Physical Properties  |               |  |
|--|---------------|--|
| Hardness, HRA<br>(ASTM B294)                               | 89.1 - 90.6   |  |
| Density, g/cc<br>(ASTM B311)                               | 14.11 - 14.32 |  |
| Average Transverse<br>Rupture Strength, psi<br>(ASTM B406) | 490,000       |  |
| Typical Porosity<br>(ASTM B276)                            | A02-B00-C00   |  |

## **Grade Attributes**

The relatively coarse carbide particle grain size coupled with medium binder content provides a wear resistant grade with moderate resistance to impact. The tantalum carbide addition ensures the highest resistance to galling. The corrosion-resistant additive exhibits high resistance to binder leaching during the EDM process as well as preventing latent, residual corrosion that may occur on the working surfaces of tools being stored for future use.

## **Typical Applications**

- > Wire EDM Blocks
- Heavy Stamping & Lamination Punches & Dies
- > Powder Metal Dies
- Pierce Punches& Dies

Please visit our website for the latest grade specification information.



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