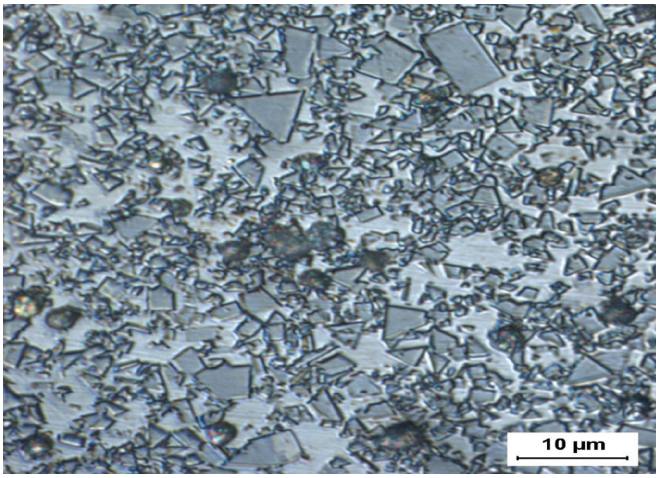
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

# GC-425CT




**Microstructure**

| Composition | |
|---|---|
| Tungsten Carbide (Coarse) | 70.0% |
| Cobalt | 25.0% |
| Tantalum Carbide | 4.0% |
| Other | 1.0% |

| Physical Properties | |
|---|---|
| Hardness, HRA (ASTM B294) | 84.4 - 85.9 |
| Density, g/cc (ASTM B311) | 12.87 - 13.11 |
| Average Transverse Rupture Strength, psi (ASTM B406) | 470,000 |
| 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

The mixture of relatively coarse carbide grain sizes coupled with the higher binder content provides a grade that can withstand the heaviest impact and, at the same time, exhibits sufficient wear resistance and corrosion resistance. This grade also exhibits extremely high fracture toughness and relatively good machinability. The tantalum carbide additive ensures high anti-galling properties.

## Typical Applications

- Sizing Dies & Core Pins for Powder Metal Tooling
- Die Inserts for Heavy Loaded Cold Heading Applications
- General Metalforming Dies
- Mandrels
- Bushings

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

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