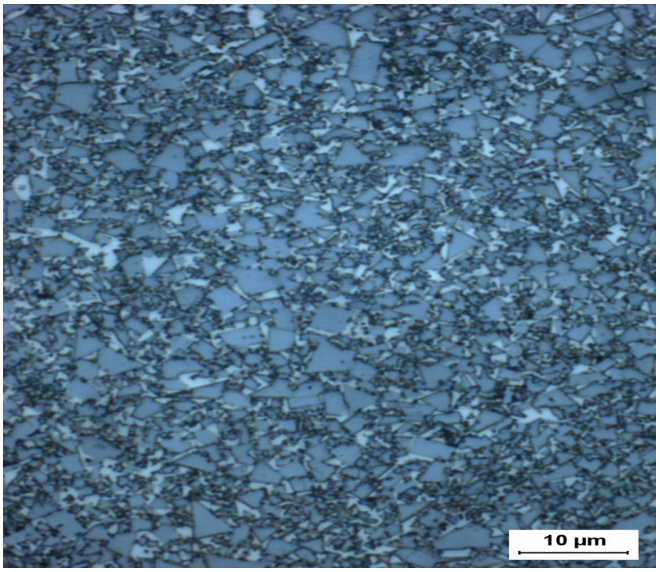
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-712C



Microstructure

Composition	
Tungsten Carbide (Coarse)	86.0%
Cobalt	13.0%
Other	1.0%

Physical Properties	
Hardness, HRA (ASTM B294)	87.8 - 89.3
Density, g/cc (ASTM B311)	13.92 - 14.14
Average Transverse Rupture Strength, psi (ASTM B406)	480,000
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 coarse grain structure coupled with the medium binder content provides a good wear resistant grade with moderate resistance to impact. The corrosion-resistant additive efficiently withstands binder leaching and electrolytic attacks in EDM operations.

Typical Applications

> Powder Metal Dies and Core Pins
> Wire EDM blocks
> Punches for Moderate Impact Load Applications

Please visit our website for the latest grade specification information.

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