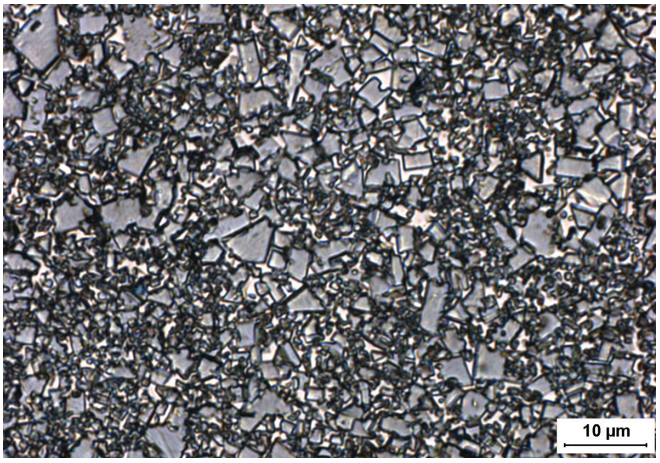
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-610M



Microstructure

Composition	
Tungsten Carbide (Mixed)	90.0%
Cobalt	10.0%

Physical Properties	
Hardness, HRA (ASTM B294)	89.3 - 90.8
Density, g/cc (ASTM B311)	14.41 - 14.62
Average Transverse Rupture Strength, psi (ASTM B406)	500,000
Typical Porosity (ASTM B276)	A02-B00-C00

PERFORMANCE CHARACTERISTICS

	LESS ■ ■ □ □ □ MORE
Wear Resistance	■ ■ □ □ □
Impact Resistance	■ ■ ■ □ □
Galling Resistance	■ □ □ □ □
Corrosion Resistance	■ □ □ □ □

Grade Attributes

The coarse and fine tungsten carbide grain combination provides this grade with robust mechanical properties as well as with moderate wear resistance and 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.

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