

Tungsten Carbide Cobalt Binder

General Information

Tungsten Carbide materials have a unique combinations of properties, high compressive strength, hardness and resistance to wear, as well as an ability to withstand shock and impact. Typical applications are Valves, Flowmeters, Ball Screws and Linear Bearings. Balls from this material are also used for Ballizing, Gauging and Ball Pens.

Composition

Tungsten Carbide	93 - 95%
Co	5 - 7%

Hardness

Hra	90.5 - 91.5
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Mechanical Properties (Typical)

Density	14.947 - 15.0% g/cm ³
Thermal Conductivity	100 W/m/oC
Electrical Resistivity	20 μ W/cm

Size Range - 0.6 mm (0.024") to 50.8 mm (2")

Standard Grades Available

5, 10, 25, 100