

## AI-0710TC

### Description and Applications

Sintered tungsten carbide parts are made from very fine tungsten carbide and cobalt powders which have been well blended and ball milled. The powder is pressed to the desired part configuration and vacuum sintered. The finished parts exhibit an excellent combination of hardness, strength and wear resistance.

**Applications Include:** Geophysical Drill Bits, Rock Bit Gage Inserts, Mining Tool Bits, Stabilizers and Reamers, Earth Auger Teeth, Stump Cutters, Percussion Drill Bits & Various Mining Tool.

### Typical Weldmetal Analysis

Contents	Grade 511	Grade 512
	Nominal %	Nominal %
Tungsten carbide	89	94
Cobalt	11	6

- Other grades available on request.
- Hot Isostatic pressing available for each grade if required.

### Mechanical Properties of Weldmetal

	Grade 511	Grade 512
Hardness	88.0-88.5 Ra	89.5-90.5 Ra
Transverse rupture strength	325,000psiMin	325,000psiM
Density	14.4-14.6g/cc	14.9-15.1g/cc

### Available Sizes

There are approximately 120 configurations available in thicknesses of 1/8", 3/16" and 1/4". New parts will be quickly quoted to your requirements.

Vacuum formed plastic "skin" packs approximately 1000 pcs. per box depending upon size and shape of parts and size or order.

### Disclaimer

All figures in this datasheet should be considered indicative only. No guarantee is made as to their accuracy.

All figures subject to change without notice. Batch analysis is available for all products sold. Should you require any further information, please contact us at [sales@alloysint.com.au](mailto:sales@alloysint.com.au)

