

TUNGCHIP DATA SHEET



Tungchip Tungsten Carbide Grit, is cemented Tungsten Carbide Cobalt chips. It is produced from specially selected and graded powders, which are sintered into solids before being broken down to grit. All Tungchip products are of premium quality, manufactured with care and attention in order to achieve and exceed international standards. Tungchip Tungsten Carbide Grit, being harder than Chromium Carbide and most traditional hard facing materials, provides an effective combatant against abrasion wear. Material is supplied in sizes from 12.7mm down to 45 micron. Particle shape is important, with the sharp blocky chips being used in cutting grade Composite Rod. The rounded blocky chips are used for GMAW, welding rods and wear grade Composite Rod. Deleterious materials are removed to avoid detrimental effects to the weld process. Quality checks including sizing, particle shape, chemical composition, oxide levels and cleanliness are undertaken during manufacturing and prior to delivery.



TUNGCHIP STOCK SIZES

8 x 12#	2.36 x 1.7mm	16 x 20 #	1.18 x 0.85 mm
10 x 16 #	2.0 x 1.18 mm	16 x 30#	1.18 x 0.60mm
10 x 30#	2.00 x 0.60mm	20 x 30 #	0.85 x 0.6 mm
12 x 16 #	1.7 x 1.18 mm	24 x 40#	0.71 x 0.43mm
12 x 20 #	1.7 x 0.85 mm	45 x 60#	0.35 x 0.25mm
12 x 30 #	1.7 x 0.60 mm	60 x 100 #	0.25 x 0.15 mm
14 x 20 #	1.4 x 0.85 mm	80 x 200#	0.18 x 0.075mm
14 x 30#	1.4 x 0.60mm	Other sizes on request	

CHEMICAL COMPOSITION

CARBON: TOTAL	5.50 - 5.85%
CARBON: FREE	0.03 - 0.15%
COBALT:	5.50 - 10.00%
TIC/TAC/VC	0.50% MAX
IRON: FREE	1.50% MAX
TUNGSTEN:	BALANCE
DENSITY:	13.8 - 14.7g/cm ³
HARDNESS:	88 - 92 HRA

Our products and any recommended practices, should be tested by the user under actual service conditions to determine their suitability for any particular purpose. The results obtained using this product / information are affected by variables such as welding procedure, base material composition, operating temperature, weldmet design, method of fabrication and service requirements which are beyond our control. It is the sole responsibility of the user to determine the serviceability of a structure using this product and the information contained in this data sheet. The technical information given in this data sheet reflects the present state of knowledge and does not form part of any sales contract as guaranteed properties of the delivered materials.



SOUTH AFRICA, EUROPE & AMERICA

SPECIALITY METALS (PTY) LTD
Reg. No. 2001/000191/07

53 Main Road, Eastleigh, South Africa
P O Box 4255, Edenvale, 1610

Tel +27 11 452 4266 Fax +27 11 452 4742

E-mail info@specialitymetals.co.za

Website www.specialitymetals.co.za



AUSTRALIA, MIDDLE EAST & ASIA PACIFIC

HARD METAL INDUSTRIES PTY LTD

P O Box 1467, Kenmore, QLD, 4069
7/20 Spine St, Sumner, QLD, 4074

Tel +61 7 3376 4303 Fax +61 7 3376 4305

Email info@hardmetalindustries.com.au

Website www.hardmetalindustries.com.au



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