

**V14 WCu, Class 11
(TUNGSTEN COPPER)
POWDER METALLURGY, ROD, BAR**



ABOUT

V14 is a Powder Metallurgy Product, using the Sintering process.

The Material is composed of distinct particles of one material dispersed in a matrix of the other one. The microstructure is therefore a metal composite instead of a true alloy.

The material is Heat Resistant, Highly Thermal and Electrically conductive and Easy to Machine.

EQUIVALENT TO :

R.W.M.A 10W3 ELKONITE

APPLICATIONS:

Resistance Welding. Inserts for Flash Butt Welding Dies, Projection Welding Dies, Cross Wire Welding, EDM Electrodes, Electrical and Thermal Contacts, Heavy Metal for Crankshaft Balancing. Heat Sinks.

CHEMICAL COMPOSITON						
Copper %	Tungsten %					
Cu	W					
75	25					

TYPICAL MECHANICAL & ELECTRICAL PROPERTIES							
TENSILE STRENGTH		CROSS BREAKING STRENGTH		ELECTRICAL CODUCTIVITY % IACS	HARDNESS		DENSITY
KSi	MPa	KSi	MPa		Rockwell HRB		
90	620	150	1034	45	Rockwell HRB	96 - 99	0.5361 lb/ in ³
					Brinell HB	130 - 170	14.84 g / ccm
					Vickers HV	129- 175	