

## J47Z C18150 Class 2 (CHROME ZIRCONIUM COPPER)

WROUGHT PRODUCT-EXTRUDED ROD, BAR & FORGINGS



### ABOUT

Heat Treatable Copper Alloy. Moderate strength and hardness, but excellent electrical conductivity. Zirconium element helps to prevent sticking of welding electrode to plated steel. Very Good Machining Properties.

### EQUIVALENT TO:

ASTM-B-C18150, CuCr1Zr, RWMA Class 2, CC102, JIS 3234.

### APPLICATIONS:

Resistance Welding Electrodes, Holders & Arms. Seam Welding Wheels. Switchgear Components  
Circuit Breaker Parts. Threaded or fine machined Copper parts.

CHEMICAL COMPOSITON						
Copper %	Chrome %	Zirconium %	Sulphur %	Iron %	Silicon %	Tellurium %
REM	0.5 – 1.5	0.02 – 0.20	-----	0.08 max	0.10 max	-----

TYPICAL MECHANICAL & ELECTRICAL PROPERTIES --- TEMPER: HT						
TENSILE STRENGTH		YIELD STRENGTH		ELONGATION %	HARDNESS	ELECTRICAL CONDUCTIVITY % IACS
MPa	317 – 379	MPa	269 - 324	20 - 30	Rockwell HRB	80 - 86
					Brinell HB	
KSi	46 - 55	KSi	39 - 47	Vickers HV	129- 175	