



Class 1 Copper Zirconium (15000)

RWMA Class 1 Copper
 UNS C15000
 AWS J1.3

Copper Zirconium is an excellent resistance welding material with very high softening temperatures. A small addition of zirconium to copper improves resistance to softening and resists deformation at high temperatures where normal copper would soften rapidly. Copper Zirconium is used as an RWMA Class 1 electrode material to minimize sticking when resistance spot welding galvanized/coated materials.

Chemical Compositions of RWMA Materials Group A - Copper Base Alloys				
RWMA Class	UNS Number	Description	Cu	Zr
1	C15000	Copper Zirconium	99.80% min.	0.10 - 0.20%

Item Name:	Copper Zirconium Alloy C15000
RWMA (Resistance Welding Manufacturing Alliance) Class:	Class 1
Principal Element:	Cu, Zr
Minimum Hardness Rockwell (up to 1" dia.):	HRB 65
Minimum Electrical Conductivity (% IACS):	80
Metal Stock Availability:	Stocked in mill form or precision cut to your specifications.

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