

TECHNICAL DATA SHEET 20

Specifications:

Alloy	Working Temperature (°C)	NF EN ISO 17672	AWS A-5.8	DIN 8513	EN ISO 3677
Cu-Zn	900	Cu 471	~RBCu Zn-C	~L-Cu Zn 40	B-Cu60 Zn(Sn)(Si)(Mn) 870/900

Characteristics:

CUPROX is an alloy of copper and zinc with small addition of silicon, tin and manganese intended to increase adhesion and to control Zn vaporization. Bare rods are to be used or coated with our **POLYFLUX**. Braze Welding alloy with good flowing properties, Suitable for gap brazing. Being a high Zn content, it is recommended to keep the heating cycle to a minimum to prevent Zinc vaporisation. .

Applications:

CUPROX is recommended to be used in lock-smith and workshops. This brazing alloy is also recommended for joining: Steels, Cast irons, Moulded steels, Nickel and Nickel alloys Coppers, Bronze, Brass, Nickel silver, Cupro-aluminium, with it solidus temperature is >900°C. When working with Cast Iron, the work pieces should not be overheated. Typical application are found in the tubular construction industry (Metal furniture, Bicycle frames, radiators & towel., warmers) mining tools heating and cooling systems, etc...

Typical Chemical Compositions (%):

Cu	Zn	Si	Sn	Mn	Fe	Al/As	Bi/ Sb /Cd	Pb	Max. impurities
58.00	Balance	0.20	0.40	0.20	<0.2	<0.01	<0.01	<0.025	<0.20



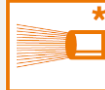

Typical Physical Properties:

Coating Colour	Solidus (°C)	Liquidus (°C)	Density g/cm³	Elongation %	Tensile strength (MPa)	Electrical Conductivity (%IACS)	Electrical Resistivity (Micro-ohm-cm)
Customize	870	900	8.40	35%	450	-	-

Properties of Brazed Joint:

The properties of a brazed joint dependent upon numerous factors including base metal properties, joint design, metallurgical interactions between the base metal and the filler metal. This alloy needs a controlled quench (in excess of 300°C) to avoid the weakening of the brazed joint.

Standard Size , Types & Heat Source Recommendations:

Size (mm)	Type				Type				
	Bare	Coated	Coil	Preforms					
1.50,2.00,2.50,3.00, 4.00, 5.00,	✓	✓	✓	✓	Bare	✓	✓	✓	✓
					Coated	✓	X	X	X

Customised size other than above standard dimensions are solicited case to case basis

Liability: This document is intended to assist the user in choosing the product. It is up to the user to verify that the chosen product is suitable for applications for which it is intended. The company FSH Welding Group reserves the right to alter specifications without prior notice of its products. The descriptions, illustrations and specifications are for reference only and cannot be held liable for FSH Welding Group. **Fumes:** Consult information on MSDS, available upon request.