

### TECHNICAL DATA SHEET 30

#### Specifications:

Alloy	Working Temperature (°C)	NF EN ISO 17672	AWS A-5.8	DIN 8513	EN ISO 3677
Cu-Zn-Ni	900	-	-	-	-

#### Characteristics:

**506** is basically an alloy of copper and zinc with 6% Nickel, which enhance the mechanical properties as compared to CUPROX. It's recommended for high Strength Joint and for Chromium and Nickel Plating. 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:

**506** is recommended to be used in lock-smiting, workshops and for brazing High stress joints.. 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.

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	Ni	Si	Sn	Mn	Al/As	Fe	Bi/Sb/Cd	Max. other impuretés
51.00	balance	6.00	0.20	<0.15	<0.20	<0.01	<0.25	<0.01	<0.20





#### Typical Physical Properties:

Colour	Solidus (°C)	Liquidus (°C)	Density g/cm³	Elongation %	Tensile strength (MPa)	Electrical Conductivity (%IACS)	Resistivity (Micro-ohm-cm)
Yellow	890	900	8.50	30%	550	-	-

#### 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.

#### Standard Size, Types and Heat Source Recommendations:

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

Preform sizes and other type other than above standard dimensions are solicited case to case basis

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