

TECHNICAL SHEET

CuAl8Ni2Fe2Mn2

BEIDUO® Alloys

Providing Complete Brazing, Soldering & Welding

No.:000026

Classification

ISO24373: Cu6327 (CuAl8Ni2Fe2Mn2)
CuAl8Ni2

Chemical Composition: %

Cu	Ni	Si	Zn	Al	Fe	Mn	Other
Balance	0.5-3.0	0.20	0.20	7.5-9.5	0.5-2.5	0.5-2.5	0.5

Mechanical and physical properties

Melting range: 1030-1050 °C

Tensile strength: 430-540 N/mm²

Elongation: 30 %

Hardness(Brinell): 130-150HB

Welding process:

TIG , MIG

Shielding Gas: Argon

Description and Applications

CuAl8Ni2Fe2Mn2 used for copper aluminium alloys with Ni and Fe addition. Weld cladding on cast iron materials and steel. Mixed joints of aluminium bronze steel.

It is resistant to seawater and cavitation resistant. Good suitability for simultaneous stress strain caused by seawater, cavitation and erosion

It is a nickel-aluminum bronze alloy used to weld cast and wrought nickel-aluminum bronze.

It has excellent resistance to corrosion, erosion, and cavitations in salt or brackish water.

Its applications include, hip fittings, ship propellers, power plant valves, piping systems, intake screens, oil recovery pumps, and propeller gear housings.

Availability

Rods: ϕ 1.5-5.0mm Max. Length: 1000mm

Wire: ϕ 0.8, 1.0, 1.2, 1.6mm on spools D300

Other dimensions are available upon request

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