

# TECHNICAL SHEET

ERCuNiAl

**BEIDUO**® Alloys

Providing Complete Brazing, Soldering & Welding

No.:000025

## Classification

AWS A5.7                      ERCuNiAl  
ISO 24373                      SCu6328(CuAl9Ni5Fe4Mn2)

## Chemical Composition: %

Cu	Ni	Al	Fe	Mn	Other
Balance	4.0-6.0	8.5-9.5	3.0-5.0	0.6-3.5	0.5

## Mechanical and physical properties

Melting range: 1015-1045 °C  
Tensile strength: 450-560 N/mm<sup>2</sup>  
Elongation: 10 %  
Hardness(Brinell): 150-170HB

## Welding process:

TIG , MIG

**Shielding Gas:** Argon

## Description and Applications

Joint and build-up welding on multi-alloyed aluminium-bronze. Build-up welding on steel and copper alloys. Fusion welding between steel and aluminium-bronze (also multi-alloys). Suitable for MIG-brazing of aluminium surfaced and galvanised steels. For use in shipbuilding, machine, apparatus and pump construction; for example ship propellers, pump casings, valve control casings and food containers. Preheating necessary only with large workpieces. For the first run of build-up welds on ferrous base material we recommend pulsed-arc welding. The welding deposit is saltwater- and corrosion resistant as well as wear resistant. Well suited if subjected to wear by salt water, cavitation and erosion at the same time.

## Availability

Rods:  $\phi$  1.5-5.0mm    Max.Length: 1000mm  
Wire:  $\phi$  0.8, 1.0, 1.2, 1.6mm on spools D300  
Other dimensions are available upon request

### BEIDUO ALLOYS

#2999 Binhong West Road, Jinhua , Zhejiang, China  
Tel: 86-579-83533866 Mob.:86-13806785765  
Email: sales@jhbeiduo.com      www.beiduoalloys.com

Jan.10,2019