

# TECHNICAL SHEET

## Aluminum Bronze

**BEIDUO® Alloys**

Providing Complete Brazing, Soldering & Welding

No.:000024

### Classification

AWS A5.7     ERCuAl-A3  
EN DIN 14640 : S Cu6240 (CuAl11Fe)

### Chemical Composition: %

Cu	Ni	Si	Zn	Al	Fe	Mn	Other
Balance	≤0.05	0.10	0.10	10.0-11.5	2.0-4.5	≤0.05	≤0.5

### Mechanical and physical properties

Melting range: 1030-1040 °C  
Tensile strength: 620-630N/mm<sup>2</sup>  
Elongation: 20 %  
Hardness(Brinell): 166HB

### Welding process:

TIG , MIG

**Shielding Gas:** Argon

### Description and Applications

High strength, elastic and corrosion resistance performance. Used for Copper –Aluminum alloys, aluminum coated steel and cast iron. For the high hard facing requirement for hardness, resistance to wear, abrasion and erosion. Example the piston surfacing welding processing.

### Availability

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

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