

TECHNICAL SHEET

Aluminum Bronze

BEIDUO® Alloys

Providing Complete Brazing, Soldering & Welding

No.:000023

Classification

AWS A5.7 ERcCuAl-A2

EN DIN 14640 : S Cu6180 (CuAl10)

Chemical Composition: %

Cu	Ni	Si	Zn	Al	Fe	Mn	Other
Balance	≤0.5	0.10	0.2	8.5-11.0	0.5-1.5	≤0.5	≤0.5

Mechanical and physical properties

Melting range: 1030-1090 °C

Tensile strength: 390-500N/mm²

Elongation: 35 %

Hardness(Brinell): 140HB

Welding process:

TIG , MIG

Shielding Gas: Argon

Description and Applications

High strength, elastic and corrosion resistance performance. Used for for copper and aluminum materials in pure iron bead welding layer for steel and cast iron. Enhanced wear resistance, suitable for aluminum copper alloy, aluminum coated steel, machinery manufacturing, chemical industry and the shipbuilding industry in the welding of grey cast iron connection and add layer welding. Corrosion resistance of aluminum bronze or special yellow pipe welding. Marine propeller, slide rail, sliding surface and bearing layer welding.

Availability

Rods: ϕ 1.5-5.0mm Max.Length: 1000mm

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

Other dimensions are available upon request

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Jan.10,2019