

Classification

AWS A5.8 ERCuMnNiAl
DIN 1733 : SG-CuMn13Al7

Chemical Composition: %

| Cu | Ni | Si | Zn | Al | Fe | Mn | Other |
|---------|---------|------|------|---------|---------|---------|-------|
| Balance | 1.5-3.0 | 0.10 | 0.15 | 8.5-9.5 | 2.0-4.0 | 11-14.0 | 0.5 |

Mechanical and physical properties

Melting range: 945-985 °C
Tensile strength: 800-900 N/mm²
Elongation: 10 %
Hardness(Brinell): 180-240HB

Welding process:

TIG , MIG

Shielding Gas: Argon

Description and Applications

ERCuMnNiAl is particularly suitable for highly stressed corrosion resistant overlay welding on cast iron and on unalloyed and low alloyed steels. Seawater resistant zinc free copper aluminum manganese alloy with high tensile strength and hardness.

Solid wire for GMAW used for assembly of copper-aluminium, for surfacing on steels and cast iron as well as for cavitation resistant overlayers. It has high resistance to wear and marine / sea water corrosion.

Manganese-Nickel-Aluminium bronze is suitable for sea water resistant joint welds, particularly with erosion, corrosion and cavitation. Suitable for surfacing of Cu-alloys, Carbon-Manganese steels and cast-iron.

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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