



# CEWELD CuMn13Al7

**TYPE** CuMnAlNi (W.Nr: 2.1367) copper alloy Mig/Mag welding wire.

**APPLICATIONS** Joint welds or building up of aluminum bronze. Cladding components undergoing metal to metal wear under high pressure. Especially suited for marine environments. The addition of manganese and nickel improves hardness and strength. Excellently suitable for joining and cladding of copper alloys, unalloyed and low-alloy steels and grey cast iron.

**PROPERTIES** Highest grade of the Al-Bronze-types. Seawater-resistant copper-aluminum alloy without Zn with high toughness and improved hardness. "Very good weldability compare to the more common Al-bronzes."

**CLASSIFICATION**

|        |                                  |
|--------|----------------------------------|
| AWS    | A 5.7: ERCuMnNiAl                |
| EN ISO | 24373: Cu 6338 / CuMn13Al8Fe3Ni2 |
| W.Nr.  | 2.1367                           |
| F-nr   | 37                               |

**SUITABLE FOR** Ship propellers, copper, brass, pumps, seawater, desalting equipment, marine, pulling tools, shafts, guide grooves, sliding surfaces, cast iron, pulley, UNS : C62300 - C63000, DIN : CuAl10Fe3Mn2 - CuAl10Ni5Fe4 - G-CuAl10Fe, Mat n° : 2.0936 - 2.0966 - 2.0940, CuNiAl, superstone etc..

**APPROVALS**

**WELDING POSITIONS**



**TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)**

| Si   | Mn | Fe | Cu   | Zn  | Pb   | Al | Ni+Co |
|------|----|----|------|-----|------|----|-------|
| 0.05 | 13 | 3  | Rem. | 0.1 | 0.01 | 8  | 2.5   |

**MECHANICAL PROPERTIES**

| Heat Treatment | R <sub>P0.2</sub> (MPa) | R <sub>m</sub> (MPa) | A <sub>5</sub> (%) | Hardness |
|----------------|-------------------------|----------------------|--------------------|----------|
| As Welded      |                         | 880                  | 10                 | 290 HB   |

**REDRYING** Not required

**GAS ACC. EN ISO 14175** I1, I3



# CEWELD CuMn13Al7

## CUMN13AL7 1,0MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663409317 |
| BS-300    | 15      | 8720663409324 |

## CUMN13AL7 1,2MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663409362 |

## CUMN13AL7 1,6MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| BS-300    | 15      | 8720663409386 |