# **CEWELD®**

## E CuMnAlNi

CATEGORY	SMAW Stick Electrodes				
TYPE	Manganese aluminium bronze electrode developed for welding on DC+. High tensile strength alloy with goo sliding properties.				
APPLICATIONS	CuMnAlNi is designed for welding and overlaying of almost all bronzes but can also be used on cast iron and most kind of steels. Due to the high tensile strength and the very good sliding properties it is often used for surfacing of shafts, ship propellers, bearings, dies etc				
PROPERTIES	This alloy has exceptional corrosion resistance against several items such as seawater or other chemical attack when accompanied by erosion Welding instructions: CuMnAlNi is only Weldable on DC + and has a easy removable slag. Use the normal standard welding techniques.				
CLASSIFICATION	AWS A 5.6: E CuMnNiAl EN ISO 1071: CuAlMn 2 B2 DIN: W.Nr. 2.1368 DIN 1736: E 31-UM-200-CN				
SUITABLE FOR	joining brass, bronze, and steel, ship propellors, dies, shafts, pump parts, valves, UNS: C62300 - C63000, DIN: CuAl10Fe3Mn2 - CuAl10Ni5Fe4 - G-CuAl10Fe, Mat n°: 2.0936 - 2.0966 - 2.0940! Cunial.				
WELDING POSITIONS:					

Cu	Mn	Si	Al	Ni	Мо
Rem	12-13	0,4	7-9	2-3	

### MECHANICAL PROPERTIES

Heat	R <sub>P0,2</sub>	Rm	A5	lmį	oact Energy (J) IS	O-V	Hardness
Treatment	(N/mm <sup>2</sup> )	(N/mm <sup>2</sup> )	(%)	-20°C	-40°C	-60°C	НВ
AW		640-735	< 20				220

#### AW: as welded

#### WELDING PARAMETERS PACKING

_	Welding Parameters	Packing		
D (mm)	Length (mm)	Current (A)	kg / can	kg / 6 pack
2.5	350	55-80	2.5	15
3.2	350	80-120	2.5	15
4.0	350	120-160	3.0	18

REDRYING TEMPERATURE 300C / 2hr

EQUIVALENT GMAW- CuMn13Al7Ni2