CEWELD®

NiCu30Mn

CATEGORY	GMAW-GTAW Solid wires						
TYPE	Solid Nickel based filler metal alloyed with Copper.						
APPLICATIONS	Shipbuilding, seawater evaporation plants, tubes, pump building, offshore etc. NiCu30Mn is suitable for dissimilar welding between Nickel 200-201, stainless steel, carbon steel, Inconel and Incoloy alloys, Nickel Copper and Copper nickel alloys.						
PROPERTIES	This Nickel - Copper weld metal has properties similar to "Monel 400". It has good strength and resists corrosion in many media, including sea water, salts and reducing acids. The weld metal is not age hardenable and when used to join Monel K-500 it has lower strength then the base metal.						
CLASSIFICATION	AWS A 5.14: ER NiCu-7 (UNS: N04060) EN ISO 18274: S Ni 4060 (NiCu30Mn3Ti) DIN: W.Nr. 2.4377 DIN 1736: SG-NiCu30MnTi						
SUITABLE FOR	2.4360, 2.4375, NiCu30Fe, NiCu30Al, Monel 400, R405, alloy K500 and dissimilar welding between these alloys.						
APPROVALS	CE approved						
WELDING POSITIONS:	PA PB PC TPE TPE						

WELD METAL ANALYSIS %

Mn	Ni	Fe	Si	Cu	Ti	С
< 4.0	62-69	< 2.5	< 1.25	base	1.50-3.0	< 0.15

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	Impact Energy (J) ISO-V			Hardness
Treatment	(N/mm ²)	(N/mm ²)	(%)	20°C	-40°C	-60°C	HRc / HV
AW	>300	>450	>30	>70			

AW: as welded

WELDING PARAMETERS / PACKING

Welding Parameters			Packing			
D (mm)	Voltage (V)	Current (A)	spool type	kg / spool	kg / pallet	
8.0			D 300 / K 300	12-15		
1.0			D 300 / K 300	12-15		
1.2			D 300 / K 300	12-15		
1.6			D 300 / K 300	12-15		

REDRYING TEMPERATURE not required

GAS ACC. EN ISO 14175: I1, I3 (Ar-He)