

WISDOM Welding Consumables

Nickel based alloy



AWS ERCuNi

DATA SHEET

November 2015

Key features:

- ① used by oxy-fuel welding of 70/30, 80/20, and 90/10 copper nickel alloys.
- ② It has excellent resistance to corrosion in sea water, ERCuNi is widely used for marine and desalination applications.

Conformances

ASME SFA 5.7

UNS C71581

AWS 5.7

CHEMICAL COMPOSITION(%)					
C	Si	Mn	S	P	Ni
≤0.03	≤0.25	≤1.0	≤0.01	≤0.02	30-32
Al	Ti	Fe	Cu	others	
≤0.15	0.2-0.5	0.4-0.75	Rest	<0.5	

MECHANICAL PROPERTIES		
Tensile Strength	53000 PSI	730 MPA
Yield Strength	21,000 PSI	140 MPA
Elongation	32%	

Diameter & Packaging			
Form	Diameter	Standard Packaging	
		spool	tube
TIG	1/16" (1.6mm)	15kg/spool	5kg/tube
	3/32" (2.4mm)	15kg/spool	5kg/tube
	1/8" (3.2mm)	15kg/spool	5kg/tube
MIG	.035" (0.9mm)	15kg/spool	5kg/tube
	.045" (1.2mm)	15kg/spool	5kg/tube
	1/16" (1.6mm)	15kg/spool	5kg/tube