

# **SMT-7030**

2022.02

**HYUNDAI WELDING CO., LTD.** 



### Specification

AWS A5.7/ ASME SFA-5.7 ERCuNi

## Applications

Used for welding desalination plant, evaporators, etc in salt and sea water processing system.

## Characteristics on Usage

- ① SMT-7030 is a TIG Wire used to weld different copper-nickel types Cu/Ni 70.30, 80.20 and 90.10.
- ② Nomally, preheating is not required & maximum interpass temperature 150°C. contamination of the weld zone with foreign material, particularly any source of lead, tin or zinc must be removed to prevent weld metal cracking.

## Note on Usage

Ar. Ar + He

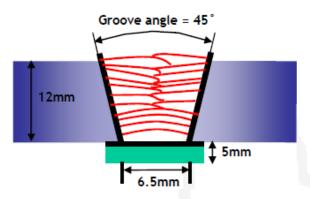
### Packing

Dia.	2.0mm	2.4mm	3.2mm		
	(5/64in)	(3/32in)	(1/8in)		
TIG	5kg (11lbs)				



# Mechanical Properties of All Weld Metal & Chemical Composition of the Wire

#### Welding Conditions



[ Joint Preparation & Layer Details ]

Diameter(mm) : 2.4mm Shielding Gas : 100%Ar

Flow Rate(ℓ /min.) : 20~25 Amp./ Volt. : 160~240

Pre-Heat( $^{\circ}$ ): R.T.Interpass Temp.( $^{\circ}$ ):  $\leq$ 150Polarity: DC(-)

#### Mechanical Properties of All weld metal

	Tensile Test				
Brand Name	YS MPa(ksi)	TS MPa(ksi)	EL (%)		
SMT-7030	309 (45)	478 (69)	38.8		

## Chemical Analysis of the wire(wt%)

Brand Name	Cu+Ag	Si	Mn	Р	S	Ni+Co	Ti	Fe	Pb
SMT-7030	67.5	0.14	0.70	0.003	0.001	30.5	0.24	0.56	0.001
AWS A5.7 ERCuNi	Rem.	≤0.25	≤1.0	≤0.02	≤0.01	29.0 ~32.0	0.20 ~0.50	0.40 ~0.75	≤0.02



# Mechanical Properties of All Weld Metal & Chemical Composition of the Wire

#### Hardness test(Hv1)

Brand Name	Hardness (Hv1)			
	<b>x</b> 1	x2	х3	
SMT-7030	124	117	118	

