

ST-347

HYUNDAI WELDING CO., LTD.



Specification

AWS A5.9 ER347

JIS Z3321 Y347

EN ISO 14343-A W 19 9 Nb

Applications

TIG Welding of 18%Cr-8%Ni-Nb(STS 347) and 18%Cr-8%Ni-Ti(STS 321) stainless steel

Characteristics on Usage

As the weld metal contains ferrite, its resistance to crack is good.

Bead appearance and weldability are good.

ST-347 has stabilizing element (Nb) thus providing good integranular corrosion resistance and better heat resistance.

Due to high creep strength at high temperature, suitable for the welding of boiler and gas turbine.

Note on Usage

Use 100% Ar gas.

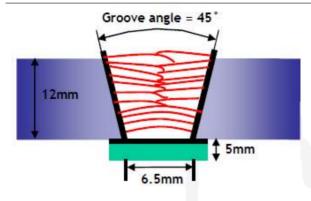
Packing

Dia.	1.6mm	2.0mm	2.4mm	2.6mm	3.2mm
	(1/16in)	(5/64in)	(3/32in)	(0.10in)	(1/8in)
TIG			5kg (11lbs)		



Mechanical Properties & Chemical Composition of All Weld Metal

*** Welding Conditions**



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

Flow Rate(ℓ /min.) : 20~25 Amp./ Volt. : 160~240 Pre-Heat(℃) : R.T.

Interpass Temp.(°C) : 150 ± 15 Polarity : DC(-)

[Joint Preparation & Layer Details]

Mechanical Properties of All weld metal(wt%)

	Tensile Test				
Consumable	T.S. MPa (ksi)	EL. (%)			
ST-347	726 (105)	32			

Chemical Analysis of the wire

Consumable	С	Si	Mn	Ni	Cr	Мо	Cu	Nb
ST-347	0.053	0.41	1.60	9.1	19.2	0.06	0.09	0.7

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