

Rev. 00

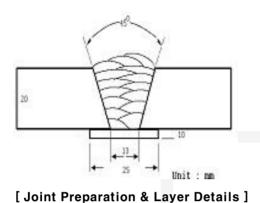
## **ST-308**

HYUNDAI WELDING CO., LTD.

						ST-30	8
Specification	AWS A JIS	15.9	ER308 Z3321 YS	308			
* Applications	<b>EN</b> TIG weld	ing of 18%-		<b>3-A W 19 9</b> ess steel	)		
Characteristics on Usage	As the w Both its I	pead appear ore, resistar	ntains ferrit ance and w	e, its crack eldability ar	resistibility i		
* Packing	Dia.	1.6mm (1/16in)	2.0mm (5/64in)	2.4mm (3/32in)	2.6mm (0.10in)	3.2mm (1/8in)	
	TIG	5kg (11lbs)					

## Mechanical Properties & Chemical Composition of All Weld Metal

## Welding Conditions



Diameter(mm)	: 2 <b>.</b> 4mm
Shielding Gas	: 100%Ar
Flow Rate(ℓ /min.)	: 20~25
Amp./ Volt.	: 160~240 /
Pre-Heat(℃)	: R.T.
Interpass Temp.(℃)	: 150 ± 15
Polarity	: DC(-)

Mechanical Properties of All weld metal

Consumable	Tensil	e Test	CVN Impact test Joule (ft·lbs)		
	T.S. MPa (ksi)	EL. (%)	−60℃ (−76°F)	−196 ℃ (−320.8°F)	
ST-308	631 (92)	45	104 (77)	33 (24)	

## Chemical Analysis of the wire(wt%)

Consumable	Chemical Composition (wt%)									
	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu	
ST-308	0.043	0.36	1.81	0.017	0.004	9.5	19.9	0.13	0.05	
AWS A5.9 ER308	≤0.08	0.30 ~0.65	1.0 ~2.5	≤0.030	≤0.030	9.0 ~11.0	19.5 ~22.0	≤0.75	≤0.75	

Chemical Analysis of All weld metal(wt%)

Consumable		Chemical Composition (wt%)									
	C	Si	Mn	Р	S	Ni	Cr	Мо	Cu		
ST-308	0.034	0.39	1.81	0.018	0.005	9.2	19.1	0.12	0.07		

This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of HYUNDAI WELDING CO., LTD. affect the results obtained in applying this type of information. These variables include, but are not limited to, welding procedure, shielding gas, plate chemistry and temperature, weldment design, fabrication methods and service requirements.