

SMT-22

AWS A5.14/ ASME SFA5.14 ERNiCrMo-10

HYUNDAI WELDING CO., LTD.



Specification

AWS A5.14/ ASME SFA5.14 ERNiCrMo-10

- Applications
- FGD, offshore structure and petrochemical plants
- Characteristics
- -Extremly high resistance for corrosion of a limited part
- Welding for inconel 625+601,hastelloy C-22, and overlay of Ni-alloy metals

Shielding

Ar, Ar+He

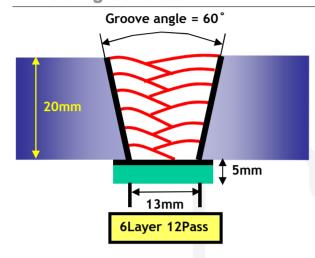
Packing

Dia.	1.0mm	1.2mm	1.6mm	
	(0.040in)	(0.045in)	(1/16in)	
Spool	12.5kg (28lbs)			
Dia.	2.0mm	2.4mm	3.2mm	
	(5/64in)	(3/32in)	(1/8in)	
TIG		5kg (11lbs)		



Mechanical Properties & Chemical Composition of All Weld Metal (GMAW)

*** Welding Condition**



Size(mm) : 1.2mm (GMAW)

Shielding Gas : Ar+30%He

Gas flow(\(\ell\) /min.) : 20~25

Amp.(A) / Voltage(V) : 190/29

Stick-Out(mm) : 20

Speed(cm/min.) : 30

❖Typical Chemical Composition of Wire(wt%)

С	Si	Mn	Р	S	Ni	Cr	Мо	Fe	W
0.009	0.06	0.381	0.001	0.001	55.58	21.47	14.19	4.13	2.85
≤0.015	≤0.08	≤0.5	≤0.020	≤0.010	Rem.	20.0~ 22.0	12.5~ 14.5	2.0~ 6.0	2.5~ 3.5
AWS A5.14 ERNiCrMo-10									

❖ Typical Mechanical Properties of All-Weld Metal (Ar+30% He)

Tensile Test				
T.S. MPa (ksi)	EL. (%)			
780 (113)	44.0			
AWS A5.14 ERNiCrMo-10	≥760	-		

CVN Impact test Joule (ft·lbs)						
℃ (℉)	X1	X2	Х3	X4	X5	Avg.
-196 (-320.8)	70 (52)	60 (44)	65 (48)	68 (50)	64 (47)	65.4 (48.2)

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.



Bead Appearance (GMAW)

❖ Bead Appearance (H-Fillet)

