

Classifications						
EN ISO 14343-A	EN ISO 14343-B	AWS A5.9	Mat. No.			
W 13 4	SSZ410NiMo	ER410NiMo(mod.)	1.4351			
Characteristics and typical fields of application						
Stainless; corrosion-resistant similar to matching 13 % Cr(Ni) steels/cast steel grades. High resistance to corrosion fatigue cracking. For joining and surfacing applications with matching 13 % Cr(Ni) and 13 % Cr-steels/cast steel grades.						
Base materials						
1.4313 – (G)X5CrNi13-4;		1.4002 – X6CrAl13;		ACI Gr. CA 6 NM		
Typical analysis of the TIG rods (wt.-%)						
	C	Si	Mn	Cr	Mo	Ni
wt-%	0.02	0.7	0.7	12.3	0.5	4.7
<b>Structure:</b> Martensite, suitable for quenching and tempering						
Mechanical properties of all-weld metal						
Heat-treatment	Yield strength	Tensile strength	Elongation	Impact work	Hardness	
	R <sub>p0.2</sub>	R <sub>m</sub>	A (L <sub>0</sub> =5d <sub>0</sub> )	ISO-V KV J	HB30	HRC
	MPa	MPa	MPa	J		
600 °C / 8 h	720	800	18	50	250	
aw						38
Operating data						
Polarity:	Shielding gas:	Marks:	ø (mm)	L mm		
DC (–)	(EN ISO 14175) I1	✦ W 13 4	2.0 2.4	1000 1000		
Welding instruction						
Materials	Preheating			Postweld treatment		
Matching steels / cast steel grades	Up to 10 mm wall thickness: none, over 10 mm wall thickness: 100 – 150 °C (212 – 302 °F)			Tempering or quenching and tempering, according to parent metal		
13 % Cr-steels / cast steel grades	According to parent metal			Tempering or quenching and tempering, according to parent metal		
Approvals						
TÜV (01582), CE						