

Classifications					
EN ISO 14343-A	AWS A5.9			Mat. No.	
G Z 18 Ti L	ER439(mod.)			≈1.4502	
Characteristics and typical fields of application					
Stainless. Scaling resistant up to 900 °C (1652 °F). For joining and surfacing of similar and matching steels. Exhaust systems.					
Base materials					
1.4016 – X6Cr17 – AISI 430					
1.4502 – X8CrTi18					
1.4510 – X3CrTi17					
AISI 439					
Typical analysis of solid wire (wt.-%)					
	C	Si	Mn	Cr	Ti
wt-%	≤ 0.03	0.8	0.8	18.0	≥ 12xC
Structure: Ferrite					
Mechanical properties of all-weld metal					
Heattreatment	Yield strength R _{p0.2}		Tensile strength R _m		Elongation A (L ₀ =5d ₀)
	MPa		MPa		%
aw					≈150
800 °C / 1 h (1472 °F)	280		430		≈130
Operating data					
Polarity: DC (+)	Shielding gas: (EN ISO 14175) M12, M13		ø (mm) 1.0		Spool: B300
Welding instruction					
Materials	Preheating		Postweld heat treatment		
Matching ferritic steels	200 – 300 °C (392 – 572 °F)		Air cooling. Stress relieving heat treatment at 800 °C (1,472 °F), Air cooling is recommended when multi layer welding.		