



Solid Wire, stainless, high-alloyed, special applications

Classificatio	ons									
EN ISO 14343-A					AWS A5.9	AWS A5.9 / SFA-5.9				
Z 17 Ti					ER430 (m	ER430 (mod.)				
Characteris	tics and t	ypical fields (of applicat	ion						
									ganic and inorganic nching and tempering	
Base materi	ials									
1.4016 – X6Cı AISI 430Ti, 43	,	– X8CrTi18; 1.4	510 – X3Cr1	ï17						
Typical ana	lysis									
	С		Si		Mn		Cr		Ti	
/t%	0.06	0.06		1.0			17.5		>8xC	
Mechanical	propertie	s of all-weld	metal - ty	pical valu	es (min. val	ues)				
Condition Yield strengt		R _{n0.2} Tensile		trength R _m Elong		ation A ($L_0 = 5d_0$) Hat		rdness		
		MPa	,	MPa		%				
I								17	0	
s 380 (≥ 300)			520 (≥ 45		20 (≥	20 (≥ 15)		130		
u untreated, a s stress reliev		'1 h)								
Operating d	ata									
× + +	Polarit	Polarity DC+				Dime	Dimension mm			
↓	Shield	Shielding gas (EN ISO 14175)		M12 M13		1.0				
	(EN IS					1.6				

under corresponding service temperatures. Matching steels / cast steel grades, suitable for quenching and tempering: Preheating 300 – 400 °C (572 – 752 °F) - Cooling to roughly

120 °C (248 °F), then temper or quench and temper, according to parent metal.

Lowest possible heat input is required, as ferritic 17 % Cr steels are susceptible to embrittlement due to grain growth.

Shielding gas: Ar + 1 - 2% 02, Ar + 2 - 3% C02

Approvals

DB (43.132.04), CE