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Solid Wire, high-alloyed, soft-martensitic stainless

Classifications							
EN ISO 14343-A			AWS A5.9 / S	AWS A5.9 / SFA-5.9			
GZ 13			ER410 (mod.)	ER410 (mod.)			
Characteristics and typical fields of application							
Stainless solid wire, corrosion-resistant similar to matching 13 % Cr(Ni) steels / cast steel grades. For surfacing applications with matching or similar 13 % Cr steels/cast steel grades. For surfacing sealing faces of water, steam and gas valves and accessories made of unalloyed and low-alloy steels/cast steel grades for service temperatures up to 450 °C (842 °F).							
Base materials							
1.4006 - X10Cr13; 1.4000 - X6Cr13; AISI 410, 420							
Typical analysis							
	С	Si	Mn		Cr	Ni	
wt%	0.08	0.9	0.65		14.0	0.4	
Structure: Martensite with part ferrite, suitable for quenching and tempering							
Mechanical properties of all-weld metal - typical values (min. values)							
Condition	Yield strength R _{p0.2}	Yield strength R _{p0.2} Tensile strength R		$(L_0 = 5d_0)$) Hardness		
	MPa	MPa	%		HB	HRC	
S	450 (≥ 250)	650 (≥ 450)	≥ 15		180		
u						35	
s heat treated, 680°C / 8h u untreated, as welded							
Operating data							
	Polarity DC +			Dimension mm			
	Shielding gas	M12		1.0			
	(EN ISO 14175)	N ISO 14175) M13		1.2			
Recommended pre-heating temperature 200 – 400 °C ($392 - 752$ °F) dpending on wall thickness. Cooling to around 120 °C (248 °F), then tempering or quenching and tempering.							
Approvals							