

Solid wire, high-alloyed, austenitic stainless

Classification	s											
EN ISO 14343-A			AWS A5.9 / SFA-5.9				CSA W48-23					
G 19 12 3 L			ER316L				ER316L					
Characteristic	s an	d typical fiel	ds of a	pplication	1							
GMAW solid wire and CrNiMo(N)-si 2Mo-steels. The Max. service tem	eels wire	and cast steel g shows very good	rades. (	Corrosion res	istance sim	nilar to ma	atching low-ca	arbon a	nd stabilize	d auster		
Base material	s											
1.4401 X5CrNiM 1.4432 X2CrNiM 1.4580 X6CrNiM UNS S31600, S3 AISI 316L, 316Ti,	o17-1 oNb1 1603	12-3, 1.4435 X2 7-12-2, 1.4583 , S31635, S3164	CrNiMo X10CrN	18-14-3, 1.4 IiMoNb18-12	436 X3CrN							
Typical analys	is											
	C		Si		Mn		Cr		Ni		Мо	
wt%	0.02		0.4		1.7		18.4	18.4			2.8	
Mechanical p	ope	rties of all-w	eld me	etal - typic	al values	(min. va	alues)					
Condition Yield strength R		R <sub>p0.2</sub> Tensile stre		ngth R <sub>m</sub> Elongation A		on A ( $L_0 = 5d_0$ )	(L <sub>0</sub> =5d <sub>0</sub> ) Impact energy ISC		0-V KV ,	I-V KV J		
MPa		MPa		MPa	l .		%		20°C		196°C	
u	430 (≥ 320)		580 (≥ 510		)	38 (≥ 25)		120 (≥ 47)		(2	(≥ 32)	
u untreated, as-w	elde	d – shielding ga	s Ar + 2	2,5% CO <sub>2</sub>				_				
Operating dat	a											
<u> </u>	Polarity			DC+			Dimen	Dimension mm				
	Shielding gas			M11			0.9	0.9				
(EN ISO 14175)			M12 M13			1.0						
							1.2					
Suggested heat i special cases, so Shielding gas: Ar	lutior	annealing can	be perfo	ormed at 10	50°C follow	ed by wat			eatment ger	nerally n	ot needed. In	
Approvals												
TÜV (19684), CW	B, DN	IV										