UTP A 68 MoLC stainless steels

Classifications			
EN ISO 14343-A	AWS A5.9	Material-No.	
G 19 12 3 L (Si)	ER 316 L (Si)	1.4430	

Characteristics and field of use

UTP A 68 MoLC is used for joining and surfacing of low-carbon, corrosion resistant CrNiMo steels exposed to high corrosion environments. For service temperatures up to +350°C. Application fields are chemical apparatus and vessels.

Base materials

1.4401 1.4404 1.4435 1.4436 1.4571 1.4580 1.4583	X5 CrNiMo 17-12-2 X2 CrNiMo 17-12-2 X2 CrNiMo 18-14-3 X3 CrNiMo 17-13-3 X6 CrNiMoTi 17-12-2 X6 CrNiMoNb 17-12-2 X10 CrNiMoNb 18-12
1.4409	GX2 CrNiMo 19-11-2

S31653, AlSi 316 L, 316 Ti, 316 Cb

Typical analysis in %

С	Si	Mn	Cr	Mo	Ni	Fe
0.02	0.65 - 1.0	1.5	18.5	2.8	12.0	balance

Mechanical properties of the weld metal

Yield strengti	$h R_{p0.2}$ Tensile stre	ength R _m Elongation	$n A$ Impact strength K_{V}
MPa	MPa	%	J (RT)
420	600	35	100

Welding instructions

Degrease and clean weld area thoroughly (metallic bright). Preheating and post heat treatment are usually not necessary.

Approvals

TÜV (No. 00188), GL

Form of delivery and recommended welding narameters

To the of don't or y and room mondou wording parameters					
Wire diameter [mm]	Current type	Shielding	Shielding gas (EN ISO 14175)		
0.8	DC (+)	M 11	M 12	M 13	
1.0	DC (+)	M 11	M 12	M 13	
1.2	DC (+)	M 11	M 12	M 13	