UTP A 6635		stainless steels
Classifications		solid wire
EN ISO 14343-A	AWS A5.9	Material-No.
G 13 4 (Si)	~ ER 410 NiMo	1.4351

Characteristics and field of use

UTP A 6635 is used for joining and building up on identical and similar martensitic CrNi cast steels for the water turbine- and compressor construction with steels.

The weld deposit of UTP A 6635 is stainless and corrosion resistant as 13 %-Cr(Ni)-steels. It presents a high resistance to corrosion fatigue.

Base materials

1.4317	G-X4 CrNi 13-4
1.4313	X3 CrNiMo 13-4
1.4351	X3 CrNi 13-4
1.4414	G-X4 CrNiMo 13-4

ACI Gr. CA6NM

Typical analysis in %						
C	Si	Mn	Cr	Mo	Ni	Fe
0.03	0.7	0.7	13.5	0.55	4.5	balance

Mechanical properties of the weld metal				
Yield strength R _{p0.2}	Tensile strength R _m	Elongation A	Impact strength K_V	
MPa	MPa	%	J (RT)	
> 600	> 800	15	> 40	

Welding instructions

For similar materials up to 10 mm wall thickness, preheating is not necessary. From 10 mm wall thickness and up, preheating at 100 – 150 °C should be provided.

Form of delivery and recommended welding parameters			
Wire diameter [mm]	Current type	Shielding gas (EN ISO 14175)	
1.2	DC (+)	M 12	