

UTP A 068 HH		nickel alloys					
Classifications		solid wire					
EN ISO 18274	AWS A5.14	Material-No.					
S Ni 6082 (NiCr20Mn3Nb)	ER NiCr-3	2.4806					
Characteristics and field of use							
UTP A 068 HH is predominantly used for joining identical or similar high heat resistant Ni-base alloys, heat resistant austenites, and for joining heat resistant austenitic-ferritic materials such as							
2.4816	NiCr15Fe	UNS N06600					
2.4817	LC- NiCr15Fe	UNS N10665					
1.4876	X10 NiCrAlTi 32 20	UNS N08800					
1.6907	X3 CrNiN 18 10						
Also used for joinings of high C content 25 / 35 CrNi cast steel to 1.4859 or 1.4876 for petrochemical installations with service temperatures up to 900 °C. Furthermore UTP A 068 HH can be used for repair welding of hardly weldable steels such as heat-treatable steels or tool steels. Additionally mixed joints of austenitic and ferritic materials with elevated service temperatures can be welded.							
The welding deposit is hot-cracking-resistant and does not tend to embrittlement.							
Typical analysis in %							
C	Si	Mn	Cr	Ni	Nb	Fe	
< 0.02	< 0.2	3.0	20.0	balance	2.7	0.8	
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) – 196 °C	
> 380		> 640		> 35		160 80	
Welding instructions							
Clean weld area thoroughly. Keep heat input as low as possible and interpass temperature at approx. 150 °C.							
Approvals							
TÜV (No. 00882), KTA, ABS, DNV GL							
Form of delivery and recommended welding parameters							
Wire diameter [mm]		Current type		Shielding gas (EN ISO 14175)			
0.8		DC (+)		I 1 I 3 Z-ArHeHC-30 / 2 / 0.05			
1.0		DC (+)		I 1 I 3 Z-ArHeHC-30 / 2 / 0.05			
1.2		DC (+)		I 1 I 3 Z-ArHeHC-30 / 2 / 0.05			
1.6		DC (+)		I 1 I 3 Z-ArHeHC-30 / 2 / 0.05			