

solid wire

Classifications								
EN ISO 18274			AWS A5.14			Material-No.		
S Ni 2061 (NiTi3)			ER Ni-1			2.4155		
Characteristics and field of use								
UTP A 80 Ni is suited for joining and surfacing on commercial pure nickel grades, including LC nickel, nickel alloys and nickel-clad steels.								
Such materials are employed primarily in the construction of pressure vessels and apparatus in the chemical industry, in the food industry and for power generation, where good behaviour under corrosion and temperature is demanded.								
The weld metal has an excellent resistance in a lot of corrosive medias, from acid to alkali solutions.								
Typical analysis in %								
C Si			Mn	Ni	Ti			Fe
< 0.02	< 0.3		0.3	balance	3.3			< 0.1
Mechanical properties of the weld metal according to EN ISO 15792-1 (min. values at RT)								
Mechanical pro	operties	of the w	eld metal accor	ding to El	N ISO 1	5792-1 (min. va	lues at RT)
Mechanical pro	Operties R _{P0.2}	of the w Tensile	veld metal accore strength R _m	ding to El Elongatio	N ISO 1 on A	5792-1 ((mín. va Impact	strength Kv
Mechanical pro Yield strength F MPa	Pperties	of the w Tensile MPa	veld metal accor	ding to El Elongatic %	N ISO 1 on A	5792-1 ((mín. va Impact J (RT)	lues at RT) strength K _V
Mechanical pro Yield strength F MPa > 300	R _{P0.2}	of the w Tensile MPa > 450	veld metal accor	ding to El Elongatic % > 30	N ISO 1 on A	5792-1 ((min. va Impact J (RT) > 160	lues at RT) strength K _V
Mechanical pro Yield strength F MPa > 300 Welding instru	Ction	of the w Tensile MPa > 450	veld metal accor	ding to El Elongatio % > 30	N ISO 1 on A	5792-1 (Impact J (RT) > 160	lues at RT) strength K _V
Mechanical pro Yield strength F MPa > 300 Welding instru Clean the weld a To be welded by	Ction area thor y stringer	of the w Tensile MPa > 450 oughly t bead te	veld metal accor e strength R _m to avoid porosity. echnique.	ding to El Elongatio % > 30 Groove ar	n A on A ngle abo	5792-1 (out 70 °.	Impact J (RT) > 160	lues at RT) strength K _V
Mechanical pro Yield strength F MPa > 300 Welding instru Clean the weld a To be welded by Approvals	ction area thor y stringer	of the w Tensile MPa > 450 oughly t bead te	veld metal accord e strength R _m to avoid porosity. echnique.	ding to El Elongatio % > 30 Groove ar	n A	5792-1 (out 70 °.	(min. va Impact J (RT) > 160	lues at RT) strength K _V
Mechanical pro Yield strength F MPa > 300 Welding instru Clean the weld a To be welded by Approvals TÜV (No. 00950	ction area thor y stringer	of the w Tensile MPa > 450 oughly t bead te	veld metal accord e strength R _m to avoid porosity. echnique.	ding to El Elongatio % > 30 Groove ar	n A	5792-1 (out 70 °.	Impact J (RT) > 160	Iues at RT) strength K _V
Mechanical pro Yield strength F MPa > 300 Welding instru Clean the weld a To be welded by Approvals TÜV (No. 00950 Wire diameter	ction area thor y stringer)), ABS [mm]	of the w Tensile MPa > 450 oughly t bead te	veld metal accord e strength R _m to avoid porosity. echnique.	ding to El Elongatio % > 30 Groove ar	N ISO 1 on A ngle abo Shield	5792-1 (out 70 °.	(min. va Impact J (RT) > 160	Iues at RT) strength K _V D 14175)
Mechanical pro Yield strength F MPa > 300 Welding instru Clean the weld a To be welded by Approvals TÜV (No. 00950 Wire diameter 0.8	operties RP0.2 ction area thor y stringer 0), ABS [mm]	of the w Tensile MPa > 450 oughly t bead te	veld metal accord e strength R _m to avoid porosity. echnique. urrent type C (+)	ding to El Elongatio % > 30 Groove ar	N ISO 1 on A ngle abo Shielo I 1	5792-1 (out 70 °.	(min. va Impact J (RT) > 160 (EN ISC Z-ArHe	Iues at RT) strength K _V D 14175) eHC-30/2/0.05
Mechanical pro Yield strength F MPa > 300 Welding instru Clean the weld a To be welded by Approvals TÜV (No. 00950 Wire diameter 0.8 1.0	ction area thor y stringer)), ABS [mm]	of the w Tensile MPa > 450 oughly t bead te	veld metal accor e strength R _m to avoid porosity. echnique. urrent type C (+) C (+)	ding to El Elongatio % > 30 Groove ar	N ISO 1 on A ngle abo Shielo I 1 I 1	5792-1 (out 70 °. ling gas	(min. va Impact J (RT) > 160 S (EN ISC Z-ArHe Z-ArHe	Iues at RT) strength K _V Strength K _V D 14175) eHC-30/2/0.05 eHC-30/2/0.05
Mechanical pro Yield strength F MPa > 300 Welding instru Clean the weld a To be welded by Approvals TÜV (No. 00950 Wire diameter 0.8 1.0 1.2	operties RP0.2 ction area thor y stringer)), ABS [mm]	of the w Tensile MPa > 450 oughly t bead te	veld metal accord e strength R _m to avoid porosity. echnique. urrent type C (+) C (+) C (+)	ding to El Elongatio % > 30 Groove an	N ISO 1 on A ngle abo I 1 I 1 I 1 I 1	5792-1 (out 70 °. l 3 l 3 l 3 l 3 l 3	(min. va Impact J (RT) > 160 S (EN ISC Z-ArHe Z-ArHe Z-ArHe	Iues at RT) strength K _V Strength K _V D 14175) SHC-30/2/0.05 SHC-30/2/0.05 SHC-30/2/0.05