UTP A 80 Ni

TIG rod

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

Yield strength $R_{P0,2}$	Tensile strength R_m	Elongation A	Impact strength K_V
MPa	MPa	%	J [RT]
> 300	> 450	> 30	> 160

Welding instruction

Clean the weld area thoroughly to avoid porosity. Groove angle about 70°. To be welded by stringer bead technique.

Approvals

TÜV (No. 00951), ABS

Rod diameter x length [mm]	Current type	Shielding gas (EN ISO 14175)
1,6 x 1000	DC (-)	I 1
2,0 x 1000	DC (-)	I 1
2,4 x 1000	DC (-)	I 1
3,2 x 1000	DC (-)	I 1