

Classifications

EN ISO 18274	AWS A5.14	Material-No.
S Ni 6025 (NiCr25Fe10AlY)	ER NiCrFe-12	2.4649

Characteristics and field of use

UTP A 6225 AI is suitable for welding of identical and similar alloys, such as NiCr25FeAlY, Material-No. 2.4633. These alloys are applicable for working temperatures up to 1200° C, particularly for thermal treatment ovens.

High oxidation resistance at high temperatures (also in cyclic conditions), very good corrosion resistance in carburized medias, excellent high temperature resistance.

Typical analysis in %

C	Si	Mn	Cr	Ni	Ti	Zr	Al	Fe	Y
0,2	0,5	0,1	25,0	balance	0,15	0,05	2,0	10,0	0,08

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]
500	720	25	50

Welding instruction

Clean the weld area thoroughly (free of oil, scale, markings). UTP A 6225 AI is welded in TIG- and Plasmaprocess (with external cold wire feeding). Use stringer bead technique. Keep heat input as low as possible (TIG max. 6,5 kJ/cm, TIG-Plasma max. 11 kJ/cm) and interpass temperature at max. 150° C. UTP A 6225 AI should only be welded by using the below recommended gas.

Approvals

TÜV (No. 10145)

Rod diameter x length [mm]	Current type	Shielding gas (EN ISO 14175)
1,6 x 1000	DC (-)	N2-ArN-2
2,0 x 1000	DC (-)	N2-ArN-2
2,4 x 1000	DC (-)	N2-ArN-2

