

## **UTP 6225 AI**

basic coated NiCrFe stick electrode

Classifications				
EN ISO 14172	AWS A5.11	Material-No.		
E Ni 6704 (NiCr25Fe10Al3YC)	E NiCrFe-12 (mod.)	2.4649		

## Characteristics and field of use

UTP 6225 Al is suitable for join and repair weldings of high-temperature and heat resistant nickel alloys of identical and similar nature, such as 2.4633 (NiCr25-FeAlY), 2.4851 (NiCr23Fe) and high nickel containing cast alloys.

The special features of the weld metal include an excellent resistance against oxidation and carburization and a good creep rupture strength. For service temperature up to 1200 °C, e. g. steel tubes, rolls and baffles in ovens, ethylene cracking tubes, muffles.

Typical analysis in %									
С	Si	Mn	Cr	Ni	Ti	Zr	Al	Fe	Υ
0.2	0.6	0.1	25.0	balance	0.1	0.03	1.8	10.0	0.02

Mechanical properties of the weld metal						
Yield strength R <sub>p0,2</sub>	Tensile strength R <sub>m</sub>	Elongation A	Impact strength K <sub>V</sub>			
MPa	MPa	%	J			
550	740	15	40			

## **Welding instruction**

Hold stick electrode as vertically as possible, keep a short arc. Use string beads technique and fill end crater carefully. Interpass temperature max. 150 °C. Redry stick electrodes for  $2-3\ h/250-300\ ^{\circ}C$ .

## **Welding positions**



Current type DC (+)

Recommended welding parameters					
Electrodes Ø x L [mm]	2.5 x 250	3.2 x 300	4.0 x 350		
Amperage [A]	50 – 65	80 – 95	90 – 120		