

basic coated NiCrMo-stick electrode

Classifications						
EN ISO 14172	AWS A5.11	Material-No.				
E Ni 6625 (NiCr22Mo9Nb)	ENiCrMo-3	2.4621				

## Characteristics and field of use

UTP 6222 Mo is particularly suited for joining and surfacing on nickel alloys, austenitic steels, low temperature nickel steels, austenitic-ferritic-joints and claddings of the same or similar nature, like 2.4856 (NiCr22Mo 9 Nb), 1.4876 (X30 NiCrAITi 32 20), 1.4529 (X2 NiCrMoCu 25 20 5).

The weld metal is heat resistant and suitable for operating temperatures up to 1000 °C. It must be noted that a slight decrease in ductility will occur if prolonged heat treatment is given within the temperature range 600 - 800 °C. Scale-resisting in low-sulphur atmosphere up to 1100 °C. High creep strength.

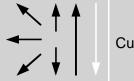
Typical analysis in %								
С	Si	Mn	Cr	Мо	Ni	Nb	Fe	
0.03	0.4	0.6	22.0	9.0	balance	3.3	< 1	
Mechanical properties of the weld metal								
Yield strength $R_{P0,2}$ Tensile strength $R_m$		Elongation A		Impact strength $K_V$				
MPa MPa		%		J	–196 °C			
> 450 > 760			> 30		> 75	>45		

## Welding instruction

Opening angle of the prepared seam approx. 70°, root gap approx. 2 mm. Weld stick electrode with slight tilt and short arc. String beads are welded. The interpass temperature of 150 °C and a max. weaving with 2.5 x diameter of the stick electrode core wire should not be exceeded.

Redry the stick electrodes 2 - 3 hours at 250 - 300 °C before use and weld them out of a warm electrode carrier.

## Welding positions



Current type DC (+)

## **Approvals**

TÜV (No. 03610), DNV, ABS, BV

Recommended welding parameters									
Electrodes Ø x L [mm]	2.5 x 300	3.2 x 300	3.2 x 350	4.0 x 350	5.0 x 400				
Amperage [A]	50 - 65	70 – 95	70 – 95	90 – 120	120 – 160				