



Basic coated NiCrMo-stick electrode

120 - 160

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	255			

Material-No.	AWS A5.11 / SFA-5.11	EN ISO 14172
2.4621	ENiCrMo-3	E Ni 6625 (NiCr22Mo9Nb)

## Characteristics and typical fields of application

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  $1000 \, ^{\circ}$ C. It must be noted that a slight decrease in ductility will occur if prolonged heat treatment is given within the temperature range  $600 - 800 \, ^{\circ}$ C. Scale-resisting in low-sulphur atmosphere up to  $1100 \, ^{\circ}$ C. High creep strength.

Typical analysis								
	С	Si	Mn	Cr	Ni	Mo	Nb	Fe
wt%	0.03	0.4	0.6	22 0	hal	9.0	3.3	<1

## Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength R <sub>00.2</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact energy ISO-V KV J		
	MPa	MPa	%	J	-196°C	
u	>450	>760	>30	>75	>45	>75

#### Operating data



Polarity	DC +	Dimension mm	Current A
Redrying	250 - 300°C / 2 - 3 h	2.5 × 300	50 – 65
		3.2 × 350	70 – 95
		4.0 × 350	90 – 120

 $5.0 \times 400$ 

# Welding instructions

Opening angle of the prepared seam approx.  $70^{\circ}$ , root gap approx. 2 mm. Weld stick electrode with slight tilt and short arc. String beads are welded. The interpass temperature of  $150^{\circ}$  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  $250-300^{\circ}$  C before use and weld them out of a warm electrode carrier.

#### **Approvals**

TÜV (No. 03610), DNV, ABS, BV