	UTP A 6222 Mo		nickel alloys			
	Classifications		solid wire			
	EN ISO 18274	AWS A5.14	Material-No.			
Į.	S Ni 6625 (NiCr22Mo9Nb)	ER NiCrMo-3	2.4831			
	Characteristics and field of u	se				
	high-corrosion resistant nicke X1 NiCrMoCuN252 X1 NiCrMoCuN252	206 1.4529 UNS N08926 205 1.4539 UNS N08904 2.4858 UNS N08825	velding high-strength and			
	It is also possible to weld 9 %	tic steel to austenitic steel as we nickel steels using this wire du rticular signifiance in aviation, in pr.	e to its high yield strength.			
		ld metal of UTP A 6222 Mo inclu , resistance to stress and hot cr				

strength, corrosion resistance, resistance to stress and hot cracking. It is highly resistant and tough even at working temperatures up to 1100 °C. It has an extremely good fatigue resistance due to the alloying elements Mo and Nb in the NiCr-matrix. The weld metal is highly resistant to oxidation and is almost immune to stress corrosion cracking. It resists intergranular penetration without having been heat-treated.

Typical analysis in %						
С	Si	Cr	Мо	Ni	Nb	Fe
< 0.02	< 0.2	22.0	9.0	balance	3.5	≤ 0.5

mechanical properties of the weld metal					
Yield strength R _{p0.2}	Tensile strength R _m	le strength R _m Elongation A Impact		rength K _v	
MPa	MPa	%	J (RT)	– 196 °C	
> 460	> 740	> 30	> 100	> 85	

Welding instructions

The welding area has to be free from inpurities (oil, paint, grease and dust). Minimize heat input. The interpass temperature should not exceed 150 °C. Heat input <12 kJ / cm.

Approvals

TÜV (No. 03460), DNV GL, ABS

Form of delivery and recommended welding parameters

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Wire diameter [mm]	Current type	Shielding gas ((EN ISO 14175)
0.8*	DC (+)	11	Z-ArHeHC-30 / 2 / 0.05
1.0	DC (+)	11	Z-ArHeHC-30 / 2 / 0.05
1.2	DC (+)	11	Z-ArHeHC-30 / 2 / 0.05
1.6	DC (+)	11	Z-ArHeHC-30 / 2 / 0.05
*available on request			

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