UTP A 6170 Co mod.

solid wire

Classifications		
EN ISO 18274	AWS A5.14	Material-No.
S Ni 6617 (NiCr22Co12Mo9)	ER NiCrCoMo-1	2.4627

Characteristics and field of use

UTP A 6170 Co mod. is particularly used for joining alloys of group NiCr23Co12Mo (material-no. 2.4663), and NiCr23Fe (material-no. 2.4851) which are used in power plant construction (materials like Sanicro 25, HR3C, S 304 H, DMV 310 N). Special application fields are in oxidizing resp. carburizing atmospheres, e. g. gas turbines, ethylene production plants.

1.4958	X5NiCrAlTi 31 20	UNS N08810
1.4959	X8NiCrAlTi 32 21	UNS N08811
2.4663	NiCr23Co12Mo	UNS N06617

The weld metal is resitant to hot-cracking. It is used for operating temperatures up to 1000 °C. Scale-resistant at temperatures up to 1000 °C.

Typical analysis in %

C	Si	Cr	Mo	Ni	Co	Ti	Al	Fe
0.06	0.15	22.0	9.0	balance	10.5	0.3	1.2	0.9

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)
> 450	> 750	> 30	> 80

Wire diameter [mm]	Current type	Shielding gas (EN ISO 14175)	
0.8	DC (+)	Z-ArHeHC-30/2/0.05	I 1
1.0	DC (+)	Z-ArHeHC-30/2/0.05	I 1
1.2	DC (+)	Z-ArHeHC-30/2/0.05	I 1
1.6	DC (+)	Z-ArHeHC-30/2/0.05	I 1

All information provided is based upon careful investigation and intensive research.
However, we do not assume any liability for correctness and information is subject to change without notice.