UTP A 381		copper alloys
Classifications	solid wire	
EN ISO 24373	AWS A5.7	Material-No.
S Cu 1898 (CuSn1)	ER Cu	2.1006

Characteristics and field of use

UTP A 381 is used for oxygen free copper types according to DIN 1787 OF-Cu, SE-Cu, SW-Cu, SF-Cu. The main applicational fields are in the apparatus- and pipeline construction.

Fluid weld pool.

Typical analysis in %					
Si	Mn	Ni	Cu	Sn	
0.3	0.25	< 0.3	balance	0.8	

Mechanical properties of the weld metal					
Yield strength $R_{p0.2}$	Tensile strength R_m	Elongation A ₅	Hardness	El. conduc- tivity	Melting range
MPa	MPa	%	НВ	s·m / mm²	$^{\circ}\mathcal{C}$
50	200	30	approx. 60	15 – 20	1020 - 1050

Welding instructions

Clean weld area thoroughly. For each application field the parameters must be optimized. In a wall thickness > 3 mm, preheating to maximal 600 °C is necessary.

Form of delivery and recommended welding parameters				
Wire diameter [mm]	Current type	Shielding gas (EN ISO 14175)		
1.0*	DC (+)	11	13	
1.2	DC (+)	11	13	
1.6	DC (+)	11	13	
*available on request				