UIF A 301	copper alloys	
Classifications		TIG rod
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 of rod and wire 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. conductivity $S \cdot m \over mm^2$	Melting range
MPa	MPa	%	НВ		${\mathscr C}$
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						
Rod diameter x length [mm]	Current type	Shielding gas (EN ISO 14175)				
1.6 x 1000	DC (-)	11				
2.0 x 1000	DC (-)	11				
2.4 x 1000	DC (-)	11				
3.2 x 1000	DC (-)	I1				