

Classifications					
EN ISO 24373	AWS A5.7		Material-No.		
S Cu 1897 (CuAg1)	ER Cu		2.1211		
Characteristics and field of use					
<p>UTP A 38 is used for oxygen free copper types according to DIN 1787 OF-Cu, SE-Cu, SW-Cu, SF-Cu. The main applications are in the electrical industry e.g. for conductor rails or other applications where high electricity is required.</p> <p>Viscous weld puddle, fine grained structure, high electrical conductivity.</p>					
Typical analysis in %					
Mn	Ni	Cu		Ag	
< 0.2	< 0.3	balance		1.0	
Mechanical properties of the weld metal					
Yield strength $R_{P0.2}$	Tensile strength $R_m$	Elongation $A_5$	Hardness	El. conductivity	Melting range
MPa	MPa	%	HB	$S \cdot m/mm^2$	°C
80	200	20	60	30 – 45	1070 – 1080
Welding instruction					
<p>Clean welding area thoroughly. For wall thickness of &gt; 3 mm a preheating is necessary (max 600 °C).</p>					
Wire diameter [mm]	Current type		Shielding gas (EN ISO 14175)		
1.0*	DC (+)		I 1	I 3	
1.2*	DC (+)		I 1	I 3	
1.6*	DC (+)		I 1	I 3	
*available on request					