

# UTP A 38

copper alloys

## Classifications

TIG rod

EN ISO 24373	AWS A5.7	Material-No.
S Cu 1897 (CuAg1)	ER Cu	2.1211

## Characteristics and field of use

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.

Viscous weld puddle, fine grained structure, high electrical conductivity.

## Typical analysis in %

Mn	Ni	Cu	Ag
< 0.2	< 0.3	balance	1.0

## Mechanical properties of the weld metal

<i>Yield strength</i> $R_{p0.2}$	<i>Tensile strength</i> $R_m$	<i>Elongation</i> $A_5$	<i>Hardness</i> $HB$	<i>El. conductivity</i> $\frac{S \cdot m}{mm^2}$	<i>Melting range</i> $^{\circ}C$
80	200	20	60	30 – 45	1070 – 1080

## Welding instructions

Clean welding area thoroughly. For wall thickness of >3 mm a preheating is necessary (max 600 °C).

## Form of delivery and recommended welding parameters

<i>Rod diameter x length [mm]</i>	<i>Current type</i>	<i>Shielding gas (EN ISO 14175)</i>
1.6 x 1000	DC ( - )	I 1
2.0 x 1000	DC ( - )	I 1
2.4 x 1000	DC ( - )	I 1
3.2 x 1000	DC ( - )	I 1