

UTP A 38

copper alloys

Classifications

solid wire

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

Yield strength $R_{p0.2}$	Tensile strength R_m	Elongation A_5	Hardness	El. conductivity	Melting range
MPa	MPa	%	HB	s·m / mm ²	°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

Wire diameter [mm]	Current type	Shielding gas (EN ISO 14175)	
1.0*	DC (+)	1 1	1 3
1.2*	DC (+)	1 1	1 3
1.6*	DC (+)	1 1	1 3

*available on request