

Classifications

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 S · m / mm ²	Melting range
MPa	MPa	%	HB		° C
80	200	20	60	30-45	1070-1080

Welding instruction

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

Rod diameter x length [mm]	Current type	Shielding gas (EN ISO 14175)
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

