

| 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 $S \cdot m / mm^2$ | 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 |