UTP 32 copper alloys

Classifications		basic-coated tin-bronze stick electrode
DIN 1733	AWS A5.6	Material-No.
EL-CuSn7	E CuSn-C (mod.)	2.1025

Characteristics and field of use

UTP 32 is a basic-coated tin-bronze stick electrode for joining and surfacing on copper tin alloys with 6 – 8 % Sn, copper-tin alloys and for weld claddings on cast iron materials and on steel.

UTP 32 is easily weldable; good slag removal. The corrosion-resistance is corresponding to identical or similar base metals. Good gliding properties.

Typical analysis in %

Cu	Sn
balance	7.0

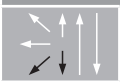
Mechanical properties of the weld metal

Yield strength $R_{p0.2}$	*Tensile strength R_m*	*Hardness*	*Electrical conductivity*	*Melting range*
MPa	*MPa*	*HD*	*S x m / mm²*	*°C*
approx. 300	> 30	approx. 100	approx. 7	910 – 1040

Welding instructions

Clean welding area thoroughly. Ignite stick electrode inclined with scratch start. For wall thickness of > 8 mm a preheating of 100 – 250 °C is necessary. Hold stick electrode vertically and weave slightly. Use only dry stick electrodes. Re-drying 2 – 3 h / 150 °C.

Welding positions



Current type DC (+)

Form of delivery and recommended welding parameters

Electrodes Ø x L [mm]	2.5 x 300	3.2 x 350	4.0 x 350
Amperage [A]	60 – 80	80 – 100	100 – 120