UTP A 34

TIG rod

Classifications		
EN ISO 24373	AWS A5.7	Material-No.
S Cu 6100 (CuAl7)	ER CuAl-A 1	2.0921

Characteristics and field of use

UTP A 34 is used for copper aluminium alloys (aluminium bronzes) with 5-9 % Al, copper-zinc alloys (brass and special brass). Weld cladding on cast iron materials and steel.

The weld deposit of UTP A 34 is resistant to corrosion and seawater and has good gliding properties metal-metal. UTP A 34 is easy weldable and obtains a clean weld surface.

Typical analysis in %

Mn	Ni	Cu	Al	Fe
< 0,5	< 0,5	balance	8,0	< 0,5

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
180	400	40	120	8	1030-1040

Welding instruction

The weld seam area has to be machined to a metallic bright by grinding, sand blasting or pickling in order to avoid crack formation or the development of pores. To avoid oxyd formation, UTP Flux 34 Sp needs to be deposited onto the base rods prior to the welding process.

Approvals

GL

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