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Classifications		basic-coated pure copper stick electrode		
DIN 1733	AWS A5.6	Material-No.		
FI -CuMn2	FCu (mod.)	2.1363		

Characteristics and field of use

The pure copper stick electrode is suitable for joining and surfacing of all commercial pure. oxygen-free copper grades acc. to DIN 1976, such as:

Material.no. Short mark Cu-OF CW008A CW021A Cu-HCP CW023A Cu-DI P CR024A Cu-DHP

UTP 39 shows a pore-free, well-deoxidized and crack-proof weld metal. Its corrosion resistance is equal to commercial copper grades.

Typical analysis in %

Cu	Mn
> 97	1.5

Mechanical properties of the weld metal

Yield strength $R_{p0.2}$	Hardness	Elongation	Electrical conductivity	Melting range	
MPa	НВ	%	$S \times m / mm^2$	$^{\circ}C$	
> 200	approx. 60	> 35	approx. 20	1000 – 1050	

Welding instructions

Clean welding zone thoroughly. Pre-heating of copper to 400 – 600 °C depending on wall thickness, maintain the temperature during the welding process. Keep the arc short with steep (vertical up) stick electrode quidance. Choose the biggest possible diameter of stick electrode. Use dry stick electrodes only. If necessary, re-drying for 2 –3 h / 150 °C.

Welding positions



Current type DC (+)

Approvals

DB (No. 63.138.02)

Form of delivery and recommended welding parameters

Electrodes Ø x L [mm]	2.5 x 350	3.2 x 350	4.0 x 450
Amperage [A]	60 – 90	80 – 100	110 – 130