

Basic-coated pure copper stick electrode

Classifications								
AWS A5.6 / SFA	-5.6		EN ISO 17777		Material-No.			
E Cu (mod.)			E Cu 1893 (CuMn2)			2.1363		
Characteristics and typical fields of application								
such as: Material.no. CW008A CW021A CW023A CR024A	Short m Cu-OF Cu-HCP Cu-DLP Cu-DHP	ark	r joining a	and surfacing of all com	mercial pure,	oxygen-free coppe	er grades acc. to DIN 1976,	
Properties of the weld metal UTP 39 shows a pore-free, well-deoxidized and crack-proof weld metal. Its corrosion resistance is equal to commercial copper grades.								
Typical analysis								
	Mn				Cu			
wt%	1.5					> 97		
Mechanical properties of all-weld metal - typical values (min. values)								
Tensile strength R _m		Elongation A ($L_0 = 5d_0$)		Hardness	Electrica	al conductivity	Melting range	
МРа		%		HB	S x m /	mm²	°C	
> 200 > 35		> 35	ca. 60		ca. 20		1000-1500	
Operating data								
▶ ♦ ♦	Polarity		DC +		Dimen	sion mm	Current A	
					2.5×3	350	60 - 90	
¥ ¥ Ý					3.2 × 3	350	80 - 100	
				4.0 × 4	150	110 – 130		
Welding instructions								
Clean welding zo	ne thorou	unhly Pre-heating	of conner	to 400-600°C depending	n on wall thick	mess maintain the	e temperature during the	

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 guidance. Choose the biggest possible diameter of stick electrode. Use dry stick electrodes only. If necessary, re-drying for 2-3 hours at 150°C.

Approvals

DB (Nr. 63.138.02)