

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)