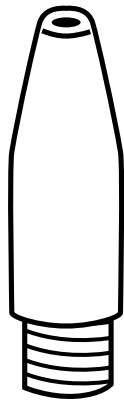


S/P/A[®] DHCA CURRENT CONTACT TIPS



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S/P/A[®] Current Contact Tips are manufactured from DHCA (Dispersion Hardened Copper Alloy) material. The core is made out of a high wear & tear resistant composite material. A homogeneous copper powder which is compressed under high pressure. The jacket copper is ECu. The DHCA copper material offers many advantages compared to current contact tips manufactured of ECu and CuCrZr alloys.



ADVANTAGES

- thermal strength up to 850 °C
- approx. 3 times prolonged service life compared to CuCrZr tips
- highly wear and tear resistant (i. e. long hole bore)
- high electrical and thermal conductivity
- all bore diameters technically feasible

CHARACTERISTICS / APPLICATIONS

In comparison to standard contact tips which are produced by a melting fusion process, DHCA (Dispersion Hardened Copper Alloy) is based on PM (Powder Metallurgical) technology. This composite material is produced by a combination of milling and mechanical alloying. Copper powder and dispersoid forming agents are intensively milled. Continuous breaking of the powder particles leads to a very homogenous mixture of the different components. This copper-based composite material is created with a distribution of ultra fine and thermally strong

oxides and carbides. As a result a high electrical and thermal conductivity as well abrasion resistance is guaranteed. The composite rods are made by cold forming of the milled powder under high pressure and hot extrusion of the billets into rods or tubes. Using common processes these rods/tubes will be deep injected into a pure copper jacket (ECu). Now we have the feedstock for our contact tips. A very hard and thermal resistant core (DHCA) and a high thermal and electrical conductive jacket (ECu).

TYPES

- » MIG Current Contact Tips
- » SAW Nozzles