

Alloys

| Material Designation | | Composition en % (mass fraction) | | | | | | | | |
|----------------------|-----------|----------------------------------|--------------------|------|--------|--------------------|-------|--------|---------------------------|----------|
| | | Element | Cu | Ag | Bi | O | P | Pb | Other elements (see note) | |
| Symbolic | Numerical | | | | | | | | total | excluded |
| Cu-ETP | CW004A | max. | 99.90 ^a | – | – | – | – | – | – | Ag, O |
| | | min. | – | | 0,0005 | 0.040 ^b | – | 0,0005 | 0,03 | |
| Cu-FRHC | CW005A | max. | 99.90 ^a | | | – | – | – | – | Ag, O |
| | | min. | – | | | 0.040 ^b | – | – | 0,04 | |
| Cu-OF | CW008A | max. | 99.95 ^a | | – | – | – | – | – | Ag |
| | | min. | – | | 0,0005 | – ^c | – | 0,0005 | 0,03 | |
| CuAg0,10 | CW013A | max. | Rest | 0,08 | – | – | – | – | – | Ag, O |
| | | min. | – | 0,12 | 0,0005 | 0.040 ^b | – | – | 0,03 | |
| CuAg0,10P | CW016A | max. | Rest | 0,08 | – | – | 0,001 | – | – | Ag, P |
| | | min. | – | 0,12 | 0,0005 | – ^c | 0,007 | – | 0,03 | |
| CuAg0,10(OF) | CW019A | max. | Rest | 0,08 | – | – | – | – | – | Ag, O |
| | | min. | – | 0,12 | 0,0005 | – ^c | – | – | 0,0065 | |
| Cu-PHC | CW020A | max. | 99.95 ^a | | – | – | 0,001 | – | – | Ag, P |
| | | min. | – | | 0,0005 | – ^c | 0,006 | 0,0005 | 0,03 | |

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|--|-----------|----------------------------------|--------------------|----|--------|----------------|-------|--------|---------------------------|----------|
| | | Element | Cu | Ag | Bi | O | P | Pb | Other elements (see note) | |
| Symbolic | Numerical | | | | | | | | total | excluded |
| Cu-HCP | CW021A | max. | 99.95 ^a | | – | – | 0,002 | – | – | Ag, P |
| | | min. | – | | 0,0005 | – ^c | 0,007 | 0,0005 | 0,03 | |
| NOTE- In all other elements (other than copper) is defined as the sum of Ag, As, Bi, Cd, Co, Cr, Fe, Mn, Ni, O, P, Pb, S, Sb, Se, Si, Sn, Te, And Zn, with the exclusion of any ítem whose value this indicated individually. | | | | | | | | | | |
| ^a To including silver, to a máximo of 0.015%. ^b Up to 0.060% of oxygen content is permitted, subject to an agreement between client and supplier.. ^c Oxygen content must be such that the material complies with the requisites for embrittlement by heating in a hydrogen atmosphere as in Norm En 1976. | | | | | | | | | | |