

# Kupferlegierungen

| Kurzbezeichnung                                                                                   | Legierung      | Hauptbestandteile in % |              |              |              |                |                  | Entzinkungsbeständigkeit<br>nach ISO 6509<br>Vorgabe < 200 µ | Zugelassener Werkstoff des<br>UmweltBundesAmtes (UBA)<br>gemäß aktueller Positivliste der<br>trinkwasserhygienisch geeig-<br>neten metallenen Werkstoffe | BENDER Sortiment<br><br>Made in Germany                       |
|---------------------------------------------------------------------------------------------------|----------------|------------------------|--------------|--------------|--------------|----------------|------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                   |                | Cu<br>(Kupfer)         | Zn<br>(Zink) | Sn<br>(Zinn) | Pb<br>(Blei) | Ni<br>(Nickel) | (Si)<br>Silizium |                                                              |                                                                                                                                                          |                                                                                                                                                  |
| <b>Messing Press*</b><br>CW617N<br><small>*Trinkwasserkonform bis 11.01.2028</small>              | CuZn40Pb2      | 57 - 59                | Rest         | ≤ 0,3        | 1,6 - 2,2    | ≤ 0,1          | ≤ 0,03           | X                                                            | ✓                                                                                                                                                        | leichte Messing Auslaufventile                                                                                                                   |
| <b>Messing bleiarm Press*</b><br>CW510L<br><small>*Trinkwasserkonform auch ab 12.01.2028</small>  | CuZn42         | 57 - 59                | Rest         | ≤ 0,3        | ≤ 0,2        | ≤ 0,2          | ≤ 0,1            | X                                                            | ✓                                                                                                                                                        | leichte Messing Auslaufventile                                                                                                                   |
| <b>Messing bleifrei Press*</b><br>CW724R<br><small>*Trinkwasserkonform auch ab 12.01.2028</small> | CuZn21Si3P     | 75 - 77                | Rest         | ≤ 0,3        | ≤ 0,1        | ≤ 0,2          | 2,7 - 3,5        | ✓                                                            | ✓                                                                                                                                                        |                                                                                                                                                  |
| <b>Messing Guss*</b><br>CC770S<br><small>*Trinkwasserkonform bis 11.01.2028</small>               | CuZn36Pb       | 62 - 64                | Rest         | ≤ 0,3        | > 0,2 - 1,6  | ≤ 0,2          | ≤ 0,02           | ✓                                                            | ✓                                                                                                                                                        | schwere CR-Messing Auslaufventile,<br>CR-Messing Freistrom- und KFR<br>Ventile, Marktmodelle, Abzweig<br>T-Ventile, Geradsitzventile, UP-Ventile |
| <b>Messing bleifrei Guss*</b><br>CC768S<br><small>*Trinkwasserkonform auch ab 12.01.2028</small>  | CuZn21Si3P     | 75 - 77                | Rest         | ≤ 0,3        | ≤ 0,1        | ≤ 0,2          | 2,7 - 3,5        | ✓                                                            | ✓                                                                                                                                                        | ECOCAST Freistrom- und KFR-Ventile                                                                                                               |
| <b>Rotguss*</b><br>CC499K<br><small>*Trinkwasserkonform bis 11.01.2028</small>                    | CuSn5Zn5Pb2-C  | 84 - 88                | 4,0 - 6,0    | 4,0 - 6,0    | > 0,2 - 3,0  | 0,1 - 0,6      | < 0,01           | ✓                                                            | ✓                                                                                                                                                        | Rotguss Freistrom- und KFR-Ventile                                                                                                               |
| <b>Rotguss bleifrei (Rg+)*</b><br>CC470K<br><small>*Trinkwasserkonform auch ab 12.01.2028</small> | CuSn4Zn2PS     | 90 - 96                | 1,0 - 3,0    | 3,0 - 5,0    | ≤ 0,2        | ≤ 0,3          | < 0,01           | ✓                                                            | ✓                                                                                                                                                        | Rotguss Freistrom- und KFR-Ventile                                                                                                               |
| <b>Messing Sonderguss</b><br>CC767S                                                               | CuZn38Al       | 59 - 64                | Rest         | ≤ 0,1        | ≤ 0,1        | ≤ 1,0          | ≤ 0,2            | X                                                            | X                                                                                                                                                        | OEM-Teile                                                                                                                                        |
| <b>Sonderguss*</b><br>CC480K<br><small>*Trinkwasserkonform bis 11.01.2028</small>                 | CuSn10 (Gbz10) | 88 - 90                | ≤ 0,5        | 9,0 - 11,0   | 0,2 - 1,0    | ≤ 0,2          | ≤ 0,02           | ✓                                                            | ✓                                                                                                                                                        | OEM-Teile                                                                                                                                        |
| <b>Sonderguss</b><br>CC333G                                                                       | CuAl10Fe5Ni5   | 76 - 83                | ≤ 0,5        | ≤ 0,1        | ≤ 0,1        | 4,0 - 6,0      | ≤ 0,1            | ✓                                                            | X                                                                                                                                                        | OEM-Teile                                                                                                                                        |

# Copper alloys

| Short description                                                                                                    | alloy          | Chemical composition in % |           |            |             |           |           | dezincification acc. to ISO 6509<br>specification < 200 µ | Approved Material of UmweltBundesAmtes (UBA) acc. To currently valid UBA positive list | BENDER variation<br>                                                                    |
|----------------------------------------------------------------------------------------------------------------------|----------------|---------------------------|-----------|------------|-------------|-----------|-----------|-----------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Forging brass*</b><br>CW617N<br><small>*drinking water conformity until 11th January 2028</small>                 | CuZn40Pb2      | 57 - 59                   | Rest      | ≤ 0,3      | 1,6 - 2,2   | ≤ 0,1     | ≤ 0,03    | X                                                         | ✓                                                                                      | lightly Brass Draw-off taps                                                                                                                                                |
| <b>Low lead forging brass*</b><br>CW510L<br><small>*drinking water conformity also from 12th January 2028</small>    | CuZn42         | 57 - 59                   | Rest      | ≤ 0,3      | ≤ 0,2       | ≤ 0,2     | ≤ 0,1     | X                                                         | ✓                                                                                      | lightly Brass Draw-off taps                                                                                                                                                |
| <b>Lead free forging brass*</b><br>CW724R<br><small>*drinking water conformity also from 12th January 2028</small>   | CuZn21Si3P     | 75 - 77                   | Rest      | ≤ 0,3      | ≤ 0,1       | ≤ 0,2     | 2,7 - 3,5 | ✓                                                         | ✓                                                                                      |                                                                                                                                                                            |
| <b>Casting brass*</b><br>CC770S<br><small>*drinking water conformity until 11th January 2028</small>                 | CuZn36Pb       | 62 - 64                   | Rest      | ≤ 0,3      | > 0,2 - 1,6 | ≤ 0,2     | ≤ 0,02    | ✓                                                         | ✓                                                                                      | heavy CR-Brass Draw-off taps, CR-Brass Free-flow valves and Combined Free-flow and Backflow-preventer valves, market model, Branch T-Valves, Globe valves, Built-In valves |
| <b>Lead free casting brass*</b><br>CC768S<br><small>*drinking water conformity also from 12th January 2028</small>   | CuZn21Si3P     | 75 - 77                   | Rest      | ≤ 0,3      | ≤ 0,1       | ≤ 0,2     | 2,7 - 3,5 | ✓                                                         | ✓                                                                                      | ECOCAST Free-flow valves and Combined Free-flow and Backflow-preventer valves                                                                                              |
| <b>Red brass*</b><br>CC499K<br><small>*drinking water conformity until 11th January 2028</small>                     | CuSn5Zn5Pb2-C  | 84 - 88                   | 4,0 - 6,0 | 4,0 - 6,0  | > 0,2 - 3,0 | 0,1 - 0,6 | < 0,01    | ✓                                                         | ✓                                                                                      | Red-brass Free-flow valves and Combined Free-flow and Backflow-preventer valves                                                                                            |
| <b>Lead free Red brass (Rg+)*</b><br>CC470K<br><small>*drinking water conformity also from 12th January 2028</small> | CuSn4Zn2PS     | 90 - 96                   | 1,0 - 3,0 | 3,0 - 5,0  | ≤ 0,2       | ≤ 0,3     | < 0,01    | ✓                                                         | ✓                                                                                      | Red-brass Free-flow valves and Combined Free-flow and Backflow-preventer valves                                                                                            |
| <b>Casting brass for OEM-parts</b><br>CC767S                                                                         | CuZn38Al       | 59 - 64                   | Rest      | ≤ 0,1      | ≤ 0,1       | ≤ 1,0     | ≤ 0,2     | X                                                         | X                                                                                      | OEM parts                                                                                                                                                                  |
| <b>Casting OEM-parts*</b><br>CC480K<br><small>*drinking water conformity until 11th January 2028</small>             | CuSn10 (Gbz10) | 88 - 90                   | ≤ 0,5     | 9,0 - 11,0 | 0,2 - 1,0   | ≤ 0,2     | ≤ 0,02    | ✓                                                         | ✓                                                                                      | OEM parts                                                                                                                                                                  |
| <b>Casting OEM-parts</b><br>CC333G                                                                                   | CuAl10Fe5Ni5   | 76 - 83                   | ≤ 0,5     | ≤ 0,1      | ≤ 0,1       | 4,0 - 6,0 | ≤ 0,1     | ✓                                                         | X                                                                                      | OEM parts                                                                                                                                                                  |