

# Kupfer, Kupferlegierungen, Eignung und Bedingungen zur Weiterverarbeitung

## Cuivre, alliages cuivreux, aptitudes et conditions de transformation

|   | Dichte g/cm <sup>3</sup><br>Densité | Schmelzpunkt<br>(-bereich)°C<br>Point de fusion | Warmumformung.<br>Formage à chaud |          | Temp. °C            |          | Kaltumformung.<br>Formage à froid |                         | Zerpannung<br>Décolletage    |                              | Verbindungsarbeiten<br>Assemblage |  | Hartlöten<br>Brazage fort | Schweissen<br>Soudage | Polieren<br>Polissage |
|---|-------------------------------------|---|-----------------------------------|----------|---------------------|----------|-----------------------------------|-------------------------|------------------------------|------------------------------|-----------------------------------|--|---------------------------|-----------------------|-----------------------|
|   |                                     |   | Eignung<br>Aptitude               | Temp. °C | Eignung<br>Aptitude | Temp. °C | Eignung %<br>Aptitude %           | Eignung %<br>Aptitude % | Assemblage<br>Brazage tendre | Assemblage<br>Brazage tendre |                                   |  |                           |                       |                       |
| <b>Kupfer/Cuivre</b>                                      |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW004A  | 8.90                                | 1083  |                                   | 750-950  |                     | 150-200  |                                   | 250-650                 |                              |                              |                                   |  |                           |                       |                       |
| CW008A  | 8.90                                | 1083  |                                   | 750-950  |                     | 150-200  |                                   | 250-650                 |                              |                              |                                   |  |                           |                       |                       |
| CW009A  | 8.90                                | 1083  |                                   | 750-950  |                     | 150-200  |                                   | 250-650                 |                              |                              |                                   |  |                           |                       |                       |
| CW024A  | 8.90                                | 1083  |                                   | 750-950  |                     | 200-250  |                                   | 300-650                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Kupfer, niedriglegiert/Cuivre faiblement allié</b>     |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW118C  | 8.90                                | 1060-1081                                       |                                   | 725-825  |                     | 225-275  |                                   | 400-650                 |                              |                              |                                   |  |                           |                       |                       |
| CW106C  | 8.90                                | 965-1080  |                                   | 850-930  |                     | 150-200  |                                   | 400-650                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Kupfer, hochkupferhaftig/Cuivre, alliages spéciaux</b> |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW111C  | 8.80                                | 1040-1070                                       |                                   | 780-850  |                     | 470-480  |                                   | 800-830                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Messing (bleifrei)/Laiton sans plomb</b>               |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW505L  | 8.55                                | 910-965   |                                   | 750-850  |                     | 250-350  |                                   | 450-680                 |                              |                              |                                   |  |                           |                       |                       |
| CW508L  | 8.45                                | 902-920   |                                   | 720-820  |                     | 250-350  |                                   | 450-650                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Messing (bleihaltig)/Laiton au plomb</b>               |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW608N  | 8.40                                | 880-895   |                                   | 700-800  |                     | 250-350  |                                   | 450-650                 |                              |                              |                                   |  |                           |                       |                       |
| CW612N  | 8.40                                | 875-890   |                                   | 625-725  |                     | 250-350  |                                   | 450-600                 |                              |                              |                                   |  |                           |                       |                       |
| CW614N  | 8.50                                | 875-890   |                                   | 625-725  |                     | 250-350  |                                   | 450-600                 |                              |                              |                                   |  |                           |                       |                       |
| CW617N  | 8.40                                | 875-890   |                                   | 625-725  |                     | 250-350  |                                   | 450-650                 |                              |                              |                                   |  |                           |                       |                       |
| CW623N  | 8.40                                | 870-885   |                                   | 600-700  |                     | 250-350  |                                   | 425-550                 |                              |                              |                                   |  |                           |                       |                       |
| CW620N  | 8.30                                | 870-885   |                                   | 650-750  |                     | 250-350  |                                   | 450-580                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Sondermessing/Laiton spécial</b>                       |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW713R  | 8.10                                | 880-890   |                                   | 600-730  |                     | 350-480  |                                   | 500-600                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Zinnbronze/Bronze à l'étain</b>                        |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW452K  | 8.80                                | 900-1050  |                                   | 750-850  |                     | 200-250  |                                   | 600-720                 |                              |                              |                                   |  |                           |                       |                       |
| CW453K  | 8.80                                | 860-1040  |                                   | 680-750  |                     | 200-250  |                                   | 600-720                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Aluminiumbronze/Bronze d'aluminium</b>                 |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW307G  | 7.60                                | 1060-1075                                       |                                   | 780-840  |                     | 300-350  |                                   | 600-800                 |                              |                              |                                   |  |                           |                       |                       |
| <b>Neusilber/Maillechort</b>                              |                                     |   |                                   |          |                     |          |                                   |                         |                              |                              |                                   |  |                           |                       |                       |
| CW403J  | 8.65                                | 1000-1060                                       |                                   | 820-950  |                     | 300-400  |                                   | 600-700                 |                              |                              |                                   |  |                           |                       |                       |
| CW400J  | 8.50                                | 910-925   |                                   | 700-800  |                     | 300-400  |                                   | 600-700                 |                              |                              |                                   |  |                           |                       |                       |

Alle Werte sind unverbindliche Richtwerte/Il s'agit de valeurs indicatives, sans engagement

schlecht 25%    mässig 50%    gut 75%    sehr gut 100%