REYNOLDS CUIVRE S.A.s

# Cu-PHC (Cu-Se)

| Mechanical properties | Temper condition | | | |
|---|---|---|---|---|
| | R200 | R2 ł0 | R290 | R360 |
| Tensile strength in N/mm$^2$ ref only | 200-260 | 240- 300 | 290-360 | >360 |
| 0,2% yield strength in N/mm$^2$ | <100 | >1 ȝ0 | >250 | >320 |
| Vickers hardness HV | 45-65 | 65- ȝ5 | 90-110 | >110 |
| Elongation $A_{L50\%}$ | - | > ȝ | >4 | >2 |

| Physical properties (Typical values in annealed temper at 20 º ː) | | |
|---|---|---|
| Thermal expansion coefficient 20 … 300 ºC | 17.7 | $10^{-6}$/K |
| Specific heat capacity | 0.385 | J/(g·K) |
| Density | 8.94 | g/cm$^3$ |
| Thermal conductivity | 385 | W/(m·K) |
| Thermal coefficient of electrical resistance (0 … 100 ºC) | 3.7 | $10^{-3}$/K |
| Modulus of elasticity ( 1 GPa = 1 kN/mm$^2$ ) cold formed | 132 | GPa |
| Electrical conductivity (IACS) | 100 | % |

| Material designation | |
|---|---|
| DIN EN | CW020A |
| UNS | C10300 |

| Chemical composition | |
|---|---|
| Cu | 99.95 % |
| P | 0.001-0.005 % |

*This information was given with the best knowledge, but cannot guarantee any characteristics we describe listed above. The contract terms of Sofia Med agreed with any individual customer and our general conditions of sales describe the liability of these conditions.*
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