

Technical characteristics

| Designations | | Metallurgical State | Nominal thickness mm | | Tensile Strength R_m N/mm ² | | Yield Limit at 0,2% $R_{p0.2}$ N/mm ² | Elongation $A_{50\text{ mm}}$ para Thicknesses up to 2,5mm inc. % min. | A for thicknesses greater than 2.5mm % min. | Hardness HV | | Grain size mm | |
|--------------|-----------|---------------------|-------------------------|------------------------|--|-----|--|---|---|----------------|-----|------------------|------|
| Material | | | from | up to and including | min. | max | | | | min. | max | min. | max. |
| Symbolic | Numerical | | | | | | | | | | | | |
| CuSn4 | CW450K | R290 | 0,1 | 5 | 290 | 390 | (max. 190) | 40 | 50 | – | – | – | – |
| | | H070 | | | – | – | – | – | – | 70 | 100 | – | – |
| | | R390 | 0,1 | 5 | 390 | 490 | (min. 210) | 11 | 13 | – | – | – | – |
| | | H115 | | | – | – | – | – | – | 115 | 155 | – | – |
| | | R480 | 0,1 | 5 | 480 | 570 | (min. 420) | 4 | 5 | – | – | – | – |
| | | H150 | | | – | – | – | – | – | 150 | 180 | – | – |
| | | R540 | 0,1 | 2 | 540 | 630 | (min. 490) | 3 | – | – | – | – | – |
| | | H170 | | | – | – | – | – | – | 170 | 200 | – | – |
| | | R610 | 0,1 | 2 | 610 | – | (min. 540) | – | – | – | – | – | – |
| | | H190 | | | – | – | – | – | – | 190 | – | – | – |

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|--------------|-----------|---------------------|-------------------------|------------------------|--|-----|--|---|---|----------------|-----|------------------|------|--|
| Material | | | from | up to and including | min. | max | | | | min. | max | min. | max. | |
| Symbolic | Numerical | | | | | | | | | | | | | |
| CuSn5 | CW451K | | | | | | | | | | | | | |
| | | R310 | 0,1 | 5 | 310 | 390 | (max. 250) | 45 | 55 | - | - | - | - | |
| | | H075 | | | - | - | - | - | - | 75 | 105 | - | - | |
| | | | | | | | | | | | | | | |
| | | R400 | 0,1 | 5 | 400 | 500 | (min. 240) | 14 | 17 | - | - | - | - | |
| | | H120 | | | - | - | - | - | - | 120 | 160 | - | - | |
| | | | | | | | | | | | | | | |
| | | R490 | 0,1 | 5 | 490 | 580 | (min. 430) | 8 | 10 | - | - | - | - | |
| | | H160 | | | - | - | - | - | - | 160 | 190 | - | - | |
| | | | | | | | | | | | | | | |
| | | R550 | 0,1 | 2 | 550 | 640 | (min. 510) | 4 | - | - | - | - | - | |
| | | H180 | | | - | - | - | - | - | 180 | 210 | - | - | |
| | | | | | | | | | | | | | | |
| | | R630 | 0,1 | 2 | 6340 | 720 | (min. 600) | 2 | - | - | - | - | - | |
| H200 | | | - | - | - | - | - | 200 | 230 | - | - | | | |
| | | | | | | | | | | | | | | |
| R690 | 0,1 | 2 | 690 | - | (min. 670) | - | - | - | - | - | - | | | |
| H220 | | | - | - | - | - | - | 220 | - | - | - | | | |

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|--------------|-----------|---------------------|-------------------------|------------------------|--|-----|--|---|---|----------------|-----|------------------|------|--|
| Material | | | from | up to and including | min. | max | | | | min. | max | min. | max. | |
| Symbolic | Numerical | | | | | | | | | | | | | |
| CuSn6 | CW452K | | | | | | | | | | | | | |
| | | R350 | 0,1 | 5 | 350 | 420 | (max. 300) | 45 | 55 | - | - | - | - | |
| | | H080 | | | - | - | - | - | - | 80 | 110 | - | - | |
| | | | | | | | | | | | | | | |
| | | R420 | 0,1 | 5 | 420 | 520 | (min. 260) | 17 | 20 | - | - | - | - | |
| | | H125 | | | - | - | - | - | - | 125 | 165 | - | - | |
| | | | | | | | | | | | | | | |
| | | R500 | 0,1 | 5 | 500 | 590 | (min. 450) | 8 | 10 | - | - | - | - | |
| | | H160 | | | - | - | - | - | - | 160 | 190 | - | - | |
| | | | | | | | | | | | | | | |
| | | R560 | 0,1 | 2 | 560 | 650 | (min. 500) | 5 | - | - | - | - | - | |
| | | H180 | | | - | - | - | - | - | 180 | 210 | - | - | |
| | | | | | | | | | | | | | | |
| | | R640 | 0,1 | 2 | 640 | 730 | (min. 600) | 3 | - | - | - | - | - | |
| H200 | | | - | - | - | - | - | 200 | 230 | - | - | | | |
| | | | | | | | | | | | | | | |
| R720 | 0,1 | 2 | 720 | - | (min. 690) | - | - | - | - | - | - | | | |
| H220 | | | - | - | - | - | - | 220 | - | - | - | | | |

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|--------------|-----------|---------------------|-------------------------|------------------------|--|-----|--|---|---|----------------|-----|------------------|------|--|
| Material | | | from | up to and including | min. | max | | | | min. | max | min. | max. | |
| Symbolic | Numerical | | | | | | | | | | | | | |
| CuSn8 | CW453K | | | | | | | | | | | | | |
| | | R370 | 0,1 | 5 | 370 | 450 | (max. 300) | 50 | 60 | – | – | – | | |
| | | H090 | | | – | – | – | – | – | 90 | 120 | – | | |
| | | | | | | | | | | | | | | |
| | | R450 | 0,1 | 5 | 450 | 550 | (min. 280) | 20 | 23 | – | – | – | | |
| | | H135 | | | – | – | – | – | – | 135 | 175 | – | | |
| | | | | | | | | | | | | | | |
| | | R540 | 0,1 | 5 | 540 | 630 | (min. 460) | 13 | 15 | – | – | – | | |
| | | H170 | | | – | – | – | – | – | 170 | 200 | – | | |
| | | | | | | | | | | | | | | |
| | | R600 | 0,1 | 5 | 600 | 690 | (min. 530) | 5 | 7 | – | – | – | | |
| | | H190 | | | – | – | – | – | – | 190 | 220 | – | | |
| | | | | | | | | | | | | | | |
| | | R660 | 0,1 | 2 | 660 | 750 | (min. 620) | 3 | – | – | – | – | – | |
| H210 | | | – | – | – | – | – | 210 | 240 | – | | | | |
| | | | | | | | | | | | | | | |
| R740 | 0,1 | 2 | 740 | – | (min. 700) | 2 | – | – | – | – | – | | | |
| H230 | | | – | – | – | – | – | 230 | – | – | – | | | |