

Silver Alloyed Copper: CuAg0,10P (CW016A) is extra low phosphorous containing silver copper.

Properties:

- Good electrical conductivity
- Good thermal conductivity
- Excellent formability
- Good weldability
- Excellent machinability
- Excellent corrosion resistance
- Resists hydrogen embrittlement

Composition:

- Cu+ Ag min 99,98 ppm
- P content 10 – 70 ppm
- Ag content 800 – 1200 ppm

Electrical conductivity:

High conductivity copper

- min 100 % IACS

According to EN: H040 min 100 % IACS, H065-90 min 98,3 % IACS, H110 min 96,6 % IACS

Typical applications:

- continuous casting mould
- Engraving industry / graphic plates

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Physical Properties, Tempers and Mechanical Properties:

| | |
|--|--|
| Alloy Name | Cu-Ag0,10P |
| European Standard Number | CW016A |
| UNS Code | |
| Manufacturing Location | Pori |
| Density | 8.9 g/cm ³ , 0.323 lb/in ³ |
| Electrical Conductivity | min 100 % IACS |
| Thermal Conductivity | min 386 W/(m °K), 223 Btu/(ft hr °F) |
| Modulus of Elasticity | 117 GPa, 17 X1000 ksi |
| Coef. of Thermal Exp. at 20 °C (68 °F) | 17.6 10-6/°C, 9.8 10-6/°F |
| EN H040 / R200 | |
| Tensile Strength Rm N/mm ² | 200 - 250 |
| Yield Strength (0.2 %) N/mm ² | max 100 |
| Elongation % A50 / A (0.1- < 2.5 mm/ 2.5 mm -) | min - / 42 |
| Hardness HV | 40 - 65 |
| Thickness mm | 0.2 - 20 |
| EN H040 / R220 | |
| Tensile Strength Rm N/mm ² | 220 - 260 |
| Yield Strength (0.2 %) N/mm ² | max 140 |
| Elongation % A50 / A (0.1- < 2.5 mm/ 2.5 mm -) | min 33 / 42 |
| Hardness HV | 40 - 65 |
| Thickness mm | 0.2 - 20 |
| EN H065 / R240 | |
| Tensile Strength Rm N/mm ² | 240 - 300 |
| Yield Strength (0.2 %) N/mm ² | min 180 |
| Elongation % A50 / A (0.1- < 2.5 mm/ 2.5 mm -) | min 8 / 15 |
| Hardness HV | 65 - 95 |
| Thickness mm | 0.2 - 6, 12 - 25 |
| EN H090 / R290 | |
| Tensile Strength Rm N/mm ² | 290 - 360 |
| Yield Strength (0.2 %) N/mm ² | min 250 |
| Elongation % A50 / A (0.1- < 2.5 mm/ 2.5 mm -) | min 4 / 6 |
| Hardness HV | 90 - 110 |
| Thickness mm | 0.2 - 25 |
| EN H110 / R360 | |
| Tensile Strength Rm N/mm ² | min 360 |
| Yield Strength (0.2 %) N/mm ² | min 320 |
| Elongation % A50 / A (0.1- < 2.5 mm/ 2.5 mm -) | min 2 / - |
| Hardness HV | min 110 |
| Thickness mm | 0.2 - 20 |

Other tempers - as ASTM - are available upon request.
 Data for information only not for purchase specification.
 Yield strength, Elongation and Hardness are typical values for each temper.