

Copper Nickel Alloys



CuNi10 / 2.0811 / C70700

Version 2

Reference standard: DIN 17471

| Symbol | Element | Cu | Ni | Density g/cm ³ |
|--------|---------|-----|----|------------------------------|
| CuNi10 | Min % | - | - | 8.9 |
| | Max % | Bal | 10 | |

Physical Properties:

- Resistivity (soft): 0.1471 ($\Omega \times \text{mm}^2/\text{m}$)
- Temperature coefficient of resistance: 0.06 (%/K)
- Conductivity soft (MS/m): 6.67
- Elongation at soft temper: >25%
- Tensile strength soft: 350 N/mm²

Size Tolerances:

| | |
|-------------|----------|
| <0.25mm | ±0.005mm |
| 0.25-0.50mm | ±0.008mm |
| 0.50-1.00mm | ±0.012mm |
| 1.00-2.00mm | ±0.02mm |
| 2.00-4.00mm | ±0.03mm |

Typical applications:

- Resistance wire



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