

AgCuNi

CADMIUM-FREE / RoHS

Silver Copper Nickel

Silver hardened with small additions of copper and nickel for noticeably higher hardness and resistance to mechanical and sliding wear, while retaining good electrical conductivity. A tough, long-wearing choice for the contact face of overlay buttons and for mechanically stressed sliding contacts.

COMPOSITION

| | |
|-------------|---------|
| Silver (Ag) | balance |
| Copper (Cu) | minor |
| Nickel (Ni) | minor |

AVAILABLE GRADES

Hardened silver alloy; composition tailored to the application

FORMS SUPPLIED

Wire, Strip / sheet, Overlay contact faces, Contact rivets

TYPICAL APPLICATIONS

- Hard-wearing overlay contact faces
- Sliding and mechanically stressed contacts
- Relays and switches needing wear resistance

QUALITY & STANDARDS

Supplied under IATF 16949:2016 / ISO 9001:2015 quality systems. Cadmium-free, RoHS compliant.

TYPICAL PROPERTIES

| | |
|---------------------------|------------------------------|
| Density | ~10.0 g/cm ³ |
| Electrical conductivity | ~75–85 %IACS |
| Hardness | ~70–110 HV (work-hardenable) |
| Melting point (Ag matrix) | ~900–960 °C |
| Wear resistance | High |

Typical / indicative values for general guidance only — not a guaranteed specification. Properties vary with grade, composition and processing. Contact Argentum Alloys for certified values for your application.

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