

AgNi 10-30

Powder-Metallurgy & Extrusion

Silver Nickel

Characteristics

Applications

AgNi 10-20

- High resistance to arc erosion and welding for currents up to 100A
- Low and stable contact resistance
- High electrical and thermal conductivity
- Good workability/formability
- Excellent mechanical properties
- Easily welds to Cu alloys

- AC contactors, motor starters – low to medium loads
- Automotive control and ISO relays
- Accessory switches
- Specific purpose relays, HVAC power relays
- Limit switches, AC & DC
- Pushbutton switches AC 24-380V
- Thermostatic control switches
- AC/DC general purpose relays 0.1-20A

AgNi 30

- Contact properties similar to AgNi 10-20%
- Better resistance to high temperature arc erosion
- Higher contact resistance and mechanical force durability
- Excellent mechanical properties

- Appliance controls 110-380V
- Wiring devices, light switches and timer switches
- Ground Fault Interrupters (GFI)
- Railway signal switches
- Electric motor controls
- AC/DC general purpose relays 0.1-20A
- Industrial molded case and large air circuit breakers – IEC standards

| Material | Ag Content [wt-%] | Density [gr/cm ³] | Electrical Resistivity [$\mu \Omega$ cm] | Hardness (Annealed) [HV10] | Tensile Strength [N/mm ²] | Elongation (Annealed) % | Form of Supply |
|----------|-------------------|-------------------------------|---|----------------------------|---------------------------------------|-------------------------|---------------------|
| AgNi 10 | 90 | 10.2 | 2.00 | 50 | 220 | 20 | Wires, Tips, Rivets |
| AgNi 15 | 85 | 10.1 | 2.08 | 55 | 250 | 17 | |
| AgNi 20 | 80 | 10.0 | 2.17 | 60 | 280 | 15 | |
| AgNi 30 | 70 | 9.8 | 2.44 | 80 | 330 | 8 | |

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