FUDAR

AgNi						
Overview	AgNi is more resistant to welding and burnout than Ag or FAg. These two properties of the product are improved by the increased content of Ni, which has a high melting point. All AgNi materials are very machinable and easy to solder. There is little material transfer when DC is turned on and off.					
Application	AgNi products are widely used in low-voltage switchgear. Such as relays, small current contactor light switches, thermostats, protection switches (with AgC, AgZnO, AgSnO2, etc. constitute an asymmetric pair).					
Material Properties						
Tips	1#AgNi	3#AgNi	6#AgNi	8#AgNi	11#AgNi	12#AgNi
Ni Content (wt%)	10.0±1.0	12.0±1.0	20.0±1.0	30.0±1.0	30.0±1.0	40.0±1.0
Density (g/cm³)	≥10.20	≥10.20	≥10.00	≥9.80	≥9.70	≥9.50
Elec.Resistivity (μΩ·cm)	≤2.30	≤2.50	≤2.40	≤2.70	≤2.70	≤3.40
Hardness HV	≥50	≥60	≥55	≥60	≥75	≥80
Manufacturing Process	Sintering-Extruding				Mixing-Compacting-Sintering	

Wires	1#AgNi	3#AgNi	5#AgNi	25#AgNi	6#AgNi	8#AgNi
Ni Content (wt%)	10±1	12±1	15±1	15±1	20±1	30±1
Density (g/cm³)	≥10.20	≥10.20	≥10.10	≥10.15	≥10.00	≥9.80
Elec.Resistivity (μΩ·cm)	≤2.10	≤2.25	≤2.10	≤2.10	≤2.25	≤2.50
Hardness HV	≥55	≥55	≥65	≥65	≥65	≥70
Tensile Strength (MPa)	≥200	≥220	≥230	≥240	≥250	≥270
Elongation (%)	≥1	≥1	≥1	≥1	≥1	≥1
Manufacturing Process	Sintering-Extruding					

Product Types								
	1#AgNi	3#AgNi	5#AgNi	6#AgNi	8#AgNi	11#AgNi	12#AgNi	25#AgNi
Wires	√	√	√	√	√			√
Strips	√	√	√	√	√			√
Tips	√	√	√	√	√	√	√	√
Bimetal strips	√	√	√	√	√			
Rivets	√	√	√	√	√			√