

# Micataped wires

## SK 780

- **Taped winding wire for operating temperature up to 500 °C**
- **Wire with a very high peak temperature resistance up to 1000°C**

### General description

SK 780 high-temperature winding wire is a copper wire or a nickel-plated copper wire taped with a thin Mica film, that has been developed by Von Roll. Mica is highly resistant to temperature and it has also good dielectric properties such as, dielectric strength and corona resistance. A glass fabric is used as carrier for the Mica. There are very few amounts of organic materials included in the insulation.

Nickel-plated copper wires do not oxidise at high temperatures.

### Applications

- Motors operating at high temperature coils with high temperature resistance as required in the textiles and plastics industry
- Fire resistant motors
- Thermo-couples
- Different high temperature applications

### Standard Types

Round copper wire or nickel-plated copper wire

Diameter 0.70 ... 3.50 mm Ø

Thickness of nickel-plating 3 µm / 5 µm / 10 µm  
or as specified by customer

### Advantages

Excellent thermal resistance

Good dielectric strength

Very good corona resistance

### Technical Data

Temperature resistance

Operating temperature max. 230 °C (not nickel-plated)  
300 - 500 °C (depending on the thickness of nickel-plating)

Peak temperature >1000 °C

Dielectric strength >700 V (Mandrel 10 x d in the shot-bath)

Increase due to insulation 0.44 mm (+ 0.05 mm / - 0.05 mm)

### Order Data

Quantity, Diameter of wire, Type, Supply for

e.g.:

|                     |                  |
|---------------------|------------------|
| Diameter d          | 0.80 mm          |
| Material of wire    | Cu nickel-plated |
| Thickness of nickel | 5 µm             |
| Type of insulation  | SK 780           |

or abbreviated Rd 0.80 Cu 5 mm Ni SK 780

The order shall specify the type of reels required, e.g.:

Cylindrical reels acc. to IEC 60264-2 and DIN 46399 (identical with VSM 23890), or conical reels acc. to IEC 60263-3 and DIN 46383.

|                             |                  |
|-----------------------------|------------------|
| Standard reels: Cylindrical | D250, D355, D500 |
| Conical                     | A250, A315       |

e.g.: 2000 kg RD SK780 NIP 0.80 D355

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the company Delle Fil SAS. Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Delle Fil SAS does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Delle Fil SAS expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Delle Fil SAS makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Delle Fil SAS shall in no event be liable for incidental, exemplary, punitive or consequential damages.