



## Class 220 Polyester Overcoated with Polyamideimide Film-Insulated Rectangular Copper Magnet Wire

Table1 Specifications

|                      |   |
|----------------------|---|
| Insulation materials | Film - Insulation Types<br><br>Polyester Overcoated with Polyamideimide;<br><br>Polyester (Imide) Overcoated with Polyamideimide;<br><br>Polyester (Amide) Overcoated with Polyamideimide     |
| Thermal Class        | 220   |
| Dimensions           | Bare Wire: Thickness 1.016mm-7.341mm ;<br>Width 2.057mm-16.535mm<br><br>Heavy: Thickness 0.076mm-0.127mm; Width 0.064mm-0.114mm<br><br>Quad: Thickness 0.127mm-0.178mm; Width 0.102mm-0.152mm |
| Certificate          | MW 38-C   |

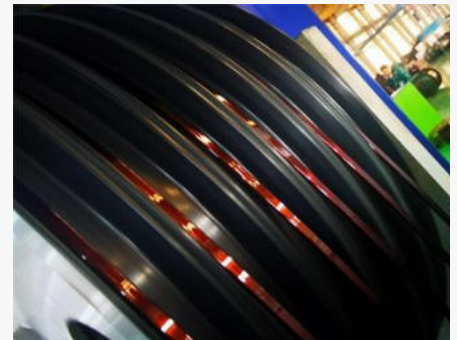
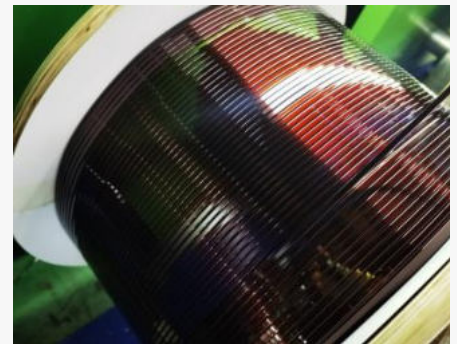


Table 2 Periodic conformance tests

|  |   |
|--|---|
| Thermoplastic flow                     | Median not less than 325°C when tested as MW 37-C Heavy Build   |
| Solubility                             | Specimens immersed in xylene and 50/50 xylene/butyl Cellosolve shall not soften sufficiently to expose the bare conductor |
| Dielectric breakdown rated temperature | Average not less than 75% of the value required at room temperature, when tested on MW 35-C Heavy build                   |

Table 3 Properties

|                           |  |
|---------------------------|--|
| Adherence and flexibility | No cracks visible in the film coating  |
| Elongation                | Bare or Film- Insulated MW Specification 18, 20, 36, 38, 64, 84  |
| Heat shock                | No cracks visible in the film coating after 15% elongation followed by conditioning at 240°C   |
| Springback                | Not greater than 5°  |
| Dielectric breakdown      | <p>Not less than the value in Heavy (500-1500) / Quad (900-2500)</p> <p>Applicable to Heavy film-insulated sizes having a thickness of less than 0.049 in. (1.25 mm) or a width greater than 0.492 in. (12.5 mm), or a width-to- thickness ratio greater than 5:1, and all Quad.</p> <p>Other Heavy film-insulated sizes shall be tested in accordance with Foil Electrode Method</p> <p>Heavy film-insulated sizes having a thickness 0.049 in. (1.25 mm) or greater; a width of 0.492 in. (12.5 mm) or less; and a width-to-thickness ratio not more than 5:1 shall have a dielectric breakdown voltage not less than in the table above after bending</p> |



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