

Electrical Insulation Systems are invaluable to motor and transformer designers as they eliminate the need for long term component testing. Combining the regulatory approvals of NE-F1 with the capabilities and experience of New England Wire Technologies at producing high-performance winding wire products allows us to provide unique solutions to meet design challenges associated with today's winding needs.

### Product Details

- ◆ UL recognized for Class F (155°C) applications:
  - OBJS2 File E231977
  - Component IEC 60085
  - CAN/CSA C22.2 No. 0-M91, Appendix B
- ◆ Approved for use in the construction of:
  - Transformers
  - Motors
  - Coils
- ◆ Provides a large selection of major and minor component materials to support any application.

### Technical Information

NE-F1 was developed as the solution to cost, size, and time saving issues. Extensive research and component testing allows us to provide a complete range of materials that are ideal for transformer, motor, and coil designs. Coil designers are given more freedom in their device designs as they are not limited to a narrow range of materials. This design freedom leads to higher efficiency, smaller, lower cost devices that can be brought to market without long-term testing delays.

NE-F1 features the NEWind® Specialty Winding Wire product line which is designed to eliminate the need for separate ground, interwinding, and turn insulation. This results in a smaller device that performs equivalent to, if not better than, the bulky and costly larger devices.

NE-F1 also features a wide variety of bobbin materials, tapes, sleeving, potting compounds, and varnishes. This diverse selection of materials ensures that NE-F1 will be suitable for most Class F devices, thus reducing the need for multiple Electrical Insulation Systems.

INSULATION SYSTEM - MAJOR COMPONENTS	
<b>Magnet Wire (Winding Wire)</b>	
Category	Components
Polyester	MW30, MW35, MW73, MW74, MW76
Polyester (Solderable)	MW77, MW78
Polyurethane (Solderable)	MW79, MW80, MW82, MW83
NEWind® Winding Wire	ETFE, FEP, PFA
<b>Ground and Interwinding Insulation</b>	
Supplier	Components
E.I. DuPont	Kapton HN
	Nomex 410, 414, 416, 418
	PTFE
	Rynite 530, FR530, FR530L, FR943
Sumitomo Bakelite	E4008
	PM-9630
-	PET Film
<b>Varnishes</b>	
Supplier	Components
John C. Dolph	AC-43
	BC-346A, BC-346B, BC-346-AN, BC-346F
	BC359
	BC365
	CC-1105
Ripley Resin Engineering	468-2
Viking Products	V1380FC
	V1630FS

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**new challenges. NEW solutions.**