OBMW2: Electrical Insulation System
Magnet Wire Component

When looking for safe and reliable magnet wire components you can count on UL to have tested and certified a wide variety of these products. With our vast experience in the testing of insulated copper and aluminum electrical conductors used in motors, transformers and other electromagnetic equipment UL offers OBMW2 certification and testing.

OBMW2 covers copper or aluminum magnet wire conductors with insulating film coatings. The coating materials have been characterized with respect to chemical composition and thermal capability. It’s important to note that when the ANSI type and temperature class is shown, it is an indication that the magnet wire has demonstrated compliance with specified requirements of ANSI/NEMA MW1000, “Magnet Wire.” The ANSI type designations shown are the nomenclature for round, rectangular and square magnet wire. See ANSI/NEMA MW1000 for comparable ANSI type designations.

This category is intended to establish, without additional tests, the interchangeability of magnet wire with similar film coatings and equal or higher thermal ratings in Recognized insulation systems that have been investigated under the thermal aging programs of UL.

This category covers the use of this wire in applications where the wire alone is being relied upon as turn insulation in magnetic devices such as motors, transformers and coils. Unless specifically indicated in the individual Recognitions, resistance to oil, chemicals, refrigerants, soaps, x-rays, ultraviolet light and the like, has not been investigated.

The products covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN EQUIPMENT SUBMITTED TO UL.

The basic standard used to investigate products in this category is ANSI/UL 1446, “Systems of Insulation Materials - General.”

For more information please visit: ul.com/chemicals