EWWG – Winding Wire Group of Europacable

The European Confederation of Associations of Manufacturers of Insulated Wires and Cables

Material Information Sheet Enamelled Winding Wire

EWWG TC09/DOUBLE COATING

Ed. 1.1.2010

This Information sheet is not a Safety Data Sheet, since our wires are only articles according REACH. They are neither Substances nor Components, and require no SDS. This Information sheet is intended to give guidance to the user on any potential health, safety and environmental question associated with the use of this material. The information has been standardised within all European Manufacturers, members of EWWG : Europacable Winding Wire Group

We declare that the Material conforms to the Environmental Specifications, as listed in the Ecodeclaration below

MATERIAL	**EDERFIL BECKER KOOP. E.**
MATERIAL DESIGNATION	**Double coating enameled wire with different coatings type:** Polyester (imide) + polyamideimide, Polyester (imide) +aliphatic polyamide, Polyuretane + aliphatic polyamide, Polyuretane + bondable polyamide, Polyuretane + polyamide,
IEC STANDARDS	Polyester (imide) + polyamideimide 60317-13-25 (-29), Polyester (imide) +aliphatic polyamide 60317-22, Polyuretane + aliphatic polyamide 60317-55, Polyuretane + bondable polyamide 60317-35 (in brackets rectangular wire)
PURPOSE	For use only as winding wires for electrical applications
CHEMICAL COMPOSITION	The film is a modified coating (see material designation) on copper or aluminium conductor. The surface is coated with an extremely thin layer of paraffin oil, paraffin wax, beeswax or ester wax. Substrate: electrolytic copper 99.95 % purity. Aluminium 99.5 % purity. The material does not contain quantity of lead, mercury, cadmium or hexavalent chromium over the limits stated by European Union Directive 2002/95/EC (RoHS) and pentaBDE, octaBDE as prohibited under European Union Directive 2003/11/EC.
WEIGHTS AND DIMENSIONS	Double coat wire: wire with a base coat insulation plus and overcoat insulation. Substrate: from 95 to 99.3 % in weight (average 97.5 %) Base coat insulation: from 0.6 to 4 % in weight (average 2.0 %) Overcoat insulation: from 0.1 to 1 % in weight (average 0.5 %)
PHYSICAL PROPERTIES	Solid material - stable up to its recommended maximum operating temperature according to IEC Standard, for a minimum life of 20,000 hours. Resistivity at 20 °C: Copper 0.0172413 Ωmm²/m aluminium 0.027898 Ωmm²/m
HEALTH HAZARDS	There are no known health hazards associated with this material when used for its specified purpose. If the enamel film is burnt or soldered, degradation products may be evolved which may require local exhaust ventilation.
FIRE PRECAUTIONS	In normal conditions of storage this material will not initiate nor support combustion. If this material is involved in a fire, the plastic spools, pallets and other packaging are combustible and may give off toxic fumes.
HANDLING USE / PRECAUTIONS	As this material is used in other manufacturing processes it is important that any safety devices on the winding machines are used in accordance with manufacturers' instructions. Particular attention should be paid to subsequent operations such as soldering and bonding, local exhaust ventilation should be used if required. Care should be taken to prevent cuts from any sharp edges on the wire. When de-reeling, care should be taken to ensure that any loose ends from the end of the reel or from a wire break do not fly out and cause laceration injury. Care should also be taken to ensure that trapped wires do not cause the reel to be pulled up out of position. On site risk assessments should be carried out to determine the safe way of handling reels or packages containing wire.
OCCUPATIONAL EXPOSURE STANDARDS	Only for Polyurethane coatings: Isocyanate will be evolved during burning or soldering and is a potential respiratory sensitizer. For the exposure limits please refer to the applicable values of each Country. No relevant standards for all the other coatings

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TRANSPORTATION	Enamelled Winding Wire is not subject to any specific provisions within the European Community. Care should however be taken to ensure that all loads are secured and unable to move during transportation.
DISPOSAL PRECAUTIONS	a) Winding wires are used with other materials to form a part of many different electrical equipment/apparatus. As far as the Directive on Electrical and Electronic Waste (WEEE 2002/96/CE) is concerned, it is the End of Life of the Electrical and Electronic Equipment/Apparatus that is important. The winding wire producers do not have a direct influence on the life of the equipment/apparatus. b) Winding wires are not equipment, according the Directive WEEE 2002/96. The winding wire producers shall not be charged with the responsibility and the cost of recycling. c) Only for information the winding wires producers suggest to the owner of the enamelled wires this environmental-friendly way of recycling the enamelled wires coming from production waste, customer production waste or end of life of electric-electronic apparatus: 1) To separate the metal wire from the packaging or support. 2) To send the metal waste to the metal refinery in order to recover metal. 3) To send the packaging materials to the packaging producers for recycling. d) Wastes of enamelled wires are considered by the current Regulations “recyclable materials” (not dangerous waste). The Eurocode concerning enamelled wires are: 16.01.18 non-ferrous metal 17.04.01 Copper, bronze and brass 17.04.02 Aluminum The Eurocode concerning the packaging are: 15.01.01 Paper and cardboard packaging 15.01.02 Plastic packaging 15.01.03 Wooden packaging 15.01.04 Metallic packaging 15.01.05 Composite packaging 15.01.06 mixed packaging
COMPANY ADDRESS	EDERFIL, KOOP. E.: Legorretako industrialdea, z/g 20250 LEGORRETA, SPAIN BECKER, KOOP. E.: Amezketa bidea, z/g 20260 ALEGIA, SPAIN

This information is presented in good faith and is based on knowledge of the materials in January 2010