A Method of Applying Polysilazane Coating onto the surface of Copper Wire or Strips for Electrical Insulation

ABSTRACT

A method of applying polysilazane coating onto copper wire or strip is invented to provide electrical insulation for the surface of copper wires or strips. The coating is able to provide electrical insulation for temperature up to 500^0C. The coating is formed using two thin polysilazane films sandwiching a Al_2O_3 layer. The polysilazane coatings are applied via dipping or wiping method, and the Al_2O_3 layer is deposited using Atomic Deposition Method.

Figure 3