



HSM Wire International, Inc

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ANODIZED COATING AND INSULATION OF ALUMINUM WIRE - RIBBON STRIP

Aluminum oxide insulated wire is unique, with its flexibility, thinness and transparency. Applications like electronics, missiles aircrafts and atomic reactor are a few to name for this type of wire. The oxide film is highly flexible, suitable for all windings of any size and shape of coils.

With a round or flat conductor, the balancing of rotary equipment is much simpler. With this lower mass, it is proven that a higher frequency occurs for voice coil construction and microphone applications. In high temperature operations Al_2O_3 insulation operates cooler and will not oxidize.

Aluminum for electric conductors that are found in small motors, solenoids, transformers and relays with precision layer requirements has a resistance of about 34.5 ohms/mm², which is equal to 62% of electrolytic copper; this means that equal conductivity weighs only 50% of that of a comparable copper conductor.

The thin insulation of .0001" allows winding in any form, including miniature coils and high-density coils. The resistance of the formed alumina film is about 1800 ohms per cm².

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