

# HM Wire International, Inc.

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## PROPERTIES OF THE ANODIC FILM

The inorganic insulated film with its advantageous dielectric properties will withstand the following:

- High temperatures to the melting point of the conductor.
- Fungus, corona and containments.
- Thermal or storage aging.
- Oxidation.
- Radiation.
- Corona.
- Thermal shock.
- High frequencies.
- Cryogenics.
- No outgasing in high vacuum.

The electrical property and breakdown voltage is about 30 to 40 volts per micron (0.00004). In a dry atmosphere resistivity oh  $5 \times 10^{15}$  ohms/cm was obtained at 20° C after charging for 60-80 seconds. The dielectric constant of the anodic film lies between 8.5 and 9.5 at 1 megahertz.