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Thermal Overload Testing of
Hermetic Magnet Wire

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ABSTRACT

A discussion of rapid burnout testing of hermetic magnet wire will be presented. Results will be included for most of the insulations currently in use, as well as for some formerly used. Testing was done in air, after soaking in R-12, and also after soaking in R-22.

The method used is the resistance heating of a bifilar coil with the dependent variable being coil to coil leakage current.

Descriptions will be given for the equipment, instrumentation, and test techniques.