WIRE AND CABLE

Acid Gas, Acidity and Conductivity of Combusted Materials

Certification testing services for combustion corrosivity properties

UL offers a recognition program specifically for wire and cable materials based on the IEC 60754 series of standards for gases that develop during combustion of materials from cables.

This program evaluates acid gases that evolve when burning for individual combustible materials used in wire and cable constructions. In addition to the damage caused by the fire itself, corrosive combustion gases can cause significant damage to electrical and electronic equipment. Recognized materials are evaluated for the amount of acidity evolved upon combustion. The program evaluates two parts: *Determination of the halogen acid gas content and determination of acidity (by pH measurement) and conductivity.*

Materials Certification

UL certifies materials to three different product categories:

- Acid Gas, acidity and conductivity of combusted materials –AATJ2
- Polymeric materials for use in wire, cable and flexible lighting products – QMTT2 (optional rating)
- Polymeric materials for use in appliance wiring material – component QMTN2 (optional rating)

It is important to note that UL Recognized materials are suitable for use when applied according to their conditions of acceptability and are covered under UL's Follow-Up Service (FUS) program. The FUS program is designed to periodically check and test UL certified products to ensure the production is consistent and compliant with program requirements.

Program Benefits

- Publically available certification confirmation
- Online Certifications Directory listing
- UL IQ Database
- Elimination of repetitive lot testing
- Creates consistency within the industry
- Globally recognized standard / test methods

Individual combustible materials that have been evaluated for combustion corrosivity properties and have been certified under UL's Recognized Component program have the advantage of being listed in the UL Online Certifications Directory (www.ul.com/database). End-use product manufacturers can easily search and find the appropriate wire and cable materials for their product needs.

The UL Online Certifications Directory is used globally by customers to view listed wire and cable materials, helping manufacturers extend their marketing reach.

For additional information:
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