

**SPECIFICATION FOR  
LOW VOLTAGE ISO METRIC/IMPERIAL INSULATORS  
or engineering approved equivalent per the specification below**

**1. SUMMARY**

This specification covers the technical requirements of the ISO insulators use in lower-voltage power distribution applications where support of live parts is required.

**2. COMPLIANCE REQUIREMENTS**

- a. ANSI/UL 891 & ANSI/UL 67 "Panelboard and Switchboard Accessories -Component" (recognized by Underwriters Laboratories under this category)
- b. CSA-C22.2 No. 244 "Switchboards"
- c. IEC 61439-1 "Low-voltage switchgear and controlgear assemblies"(metric range insulator)
- d. IEC 60695-2-12 (Glow Wire Test 960 °C, metric range insulator)
- e. RoHS 2011/65/EU Compliant

**3. PRODUCT COMPOSITION**

**a. Insulator body**

The insulator body should be made of halogen-free glass fiber reinforced polyester. The material should be self-extinguishable and be rated to class V0 according to UL94.

**b. Threaded insert**

The insert should be made of steel with an electrogalvanized finish.

**c. Mounting kits**

An optional mounting kit should be provided. It composed of a stud, washer, lock washer, nut. This kit should be made of zinc plated steel.

**4. PRODUCT CHARACTERISTICS**

**a. Physical**

The insulator should have hexagonal profile to facilitate assembly.

**b. Environmental**

Working temperature ranging from -40°C up to 130 °C per UL 746B

**c. Performance**

The insulator should be tested according to ANSI/UL67 and ANSI/UL891.

The metric insulator should be tested per IEC 61439-1.

The tensile strength and cantilever of the insulator must exceed the requirements of ANSI/UL 891, Annex G.

UL CTI PLC rating of 0, AND UL RTI Electrical rating of 130 or greater, AND UL RTI Mechanical without Impact of 130 or greater.

**5. SUPPLIER'S QUALIFICATION AND QUALITY CONTROL**

- a. Supplier shall be ISO9001:2000 certified and quality control be done accordingly.
- b. Manufacturer shall be following a health & safety program at least as stringent as the United States Occupational Health & Safety Administration program.