

**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.