

Before submitting for Certification, check that the product can comply with the relevant clauses of:

**General Requirements  
IEC 60079-0**

When preparing an application for Certification, it should be kept in mind that the Testing Laboratory may not be familiar with the products. It is essential to give a practical description of the equipment, its use, what the range is – assuming there are several sizes of product involved – and to remember that all types of explosion-protection techniques are wholly or partly dependent upon the successful assessment and tests contained within the General Requirements Standard, BEFORE proceeding to the basic “Ex” Standard. The following is a check list that needs to be considered prior to making a submission to the Testing Station; and each clause of the Standard should be studied to ensure that all relevant items are covered for the product/s requiring Certification:

- Specifications:** Show material and proprietary items specifications on drawings or cross-refer to separate, identifiable specification sheets
- Describe:** Chemical  Physical  Electrical  properties of each part that may affect the integrity of the explosion-protection technique
- Specify:** Insulation types  Moulding materials  magnesium content in aluminium  Comparative Tracking Index CTI  Gasket & O-ring materials/dimensions
- Minimum Thickness of enclosure walls
- Materials  Chemical resistance to vapours and liquids
- Plastic materials  and Resistance to heat  Cold  and Light
- where appropriate. A plastic manufacturer’s statement may help to conserve costs.
- Anti-condensation heaters  Thermal protection devices
- Breathers  Drainage devices  Capacitors  Transformers
- Resistors  Batteries Primary  and Secondary  Cables
- Varnish Impregnation Techniques  Window Glass  Fasteners
- Tolerances on Threads and Holes
- List Range of:** Voltages  Currents  Frequencies  Watts  Frame Sizes
- Lamp Tube Lengths  Sizes of Conduit  or Gland entries
- Limitations of Power for declared Temperature Class
- Clearances to Earth Metal  Creepages  and Clearance Distances
- Options for each product type
- Prepare:** Clear and legible drawings  showing the detail that is called up in each Standard
- Keep the drawing quantities down to a minimum
- Drawings for Certification rather than using Production Drawings
- Provide:** Test Reports of Load Tests to support the range
- Certificates of Conformity for any Components – already certified - that are used in the product assemblies
- Certificates and Test Report copies if the product/s is being submitted for Supplementary Certification
- Be prepared:** To submit more than one sample  When encapsulated, provide a potted and unpotted version of the product
- Check:** All clauses of the General Requirements Standard  AND the Standards covering the type of explosion-protection for which Certification is requested