

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