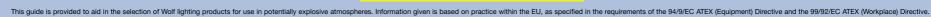


Wolf Safety Lamp Company

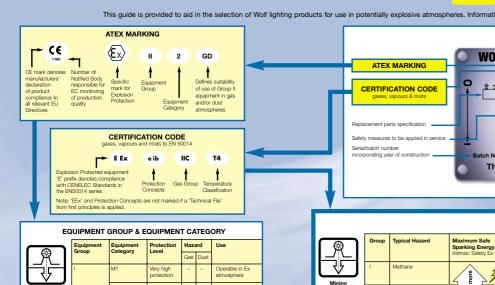
Wolf Safety Lamp Company Wolf ATEX Explained



Ex Equipment



Ex EQUIPMENT LABEL



'CE' MARKING AND THE 94/9/EC ATEX DIRECTIVE ON EQUIPMENT AND PROTECTIVE SYSTEMS INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES.

'CE' marking has been introduced as part of the European Union's new approach to technas a means of identifying products that comply with all relevant EC directives. Subject to certain safeguards, products bearing the 'CE' mark are permitted to be sold throughout the EU without interference from national regulatory authorities. The Directives have been put in place in order to remove artificial trade barriers within the European Union previously caused by individual countries' national standards, a secondary function is as a means of regulating safety.

The Directive applies to all equipment and systems for use in potentially explosive atmospheres within the EU. The scope of the directive includes electrical and mechanical equipment for use in Group I (mining) or Group II (industrial) applications, both or and offshore and considers risked of ginition of potentially explosive gas, vapour, mist and dust atmospheres, in addition, devices intended for use outside potentially explosive atmospheres that contribute to the safe functioning of equipment and systems with regard to explosion risk are also includes.

are also included.

Compliance of products to the ATEX Equipment Directive, through conformity assessment, takes a modular approach, and is generally in two stages; design and production.

A common route to product design compliance is to apply to a Notified Body (Ex. Test House) for an EC Type Examination Certificate. To comply, the equipment or system must meet the Essential Health and Setely Requirements [EHS98] sites in the Denote; hetemonic EH standards have been accepted by CENELE and CEM, relating to the design, construction and testing of equipment, a product complying with these standards is deemed to meet the EHS9Rs to which the standards relate. Where apparatus follows a protection concept not covered by these standards, compliance to the 94/9/EC Directive is still possible by compling a "facthrical File" from first principles, demonstrating compliance through test and assessment to the EHSRs relating to design and construction of equipment for use in explosive atmospheres.

In addition to the 94/9/EC ATEX (Equipment) Directive, products for use in potentially explosive atmosphary require to be compliant with other directives including the 89/33/6/ECC Bectro-Magnetic Compatible (EMC) Directive, which became mandatory on 11/19/6. This Directive applies to virtually at electrical and electronic apparatus potentially able to generate interfering emissions or exhibit an undue sensitivity to interference sources.

99/92/EC ATEX (WORKPLACE) DIRECTIVE ON MINIMUM REQUIREMENTS FOR IMPROVING THE SAFETY AND HEALTH PROTECTION OF WORKERS POTENTIALLY AT RISK FROM EXPLOSIVE ATMOSPHERES.

The Directive covers both Group I and Group II activities, on shore and offshore within the EU, and aims to provide a better level of protection for the health and safety of workers in potentially explosive gas, vapour, mist and ubert atmospheres.

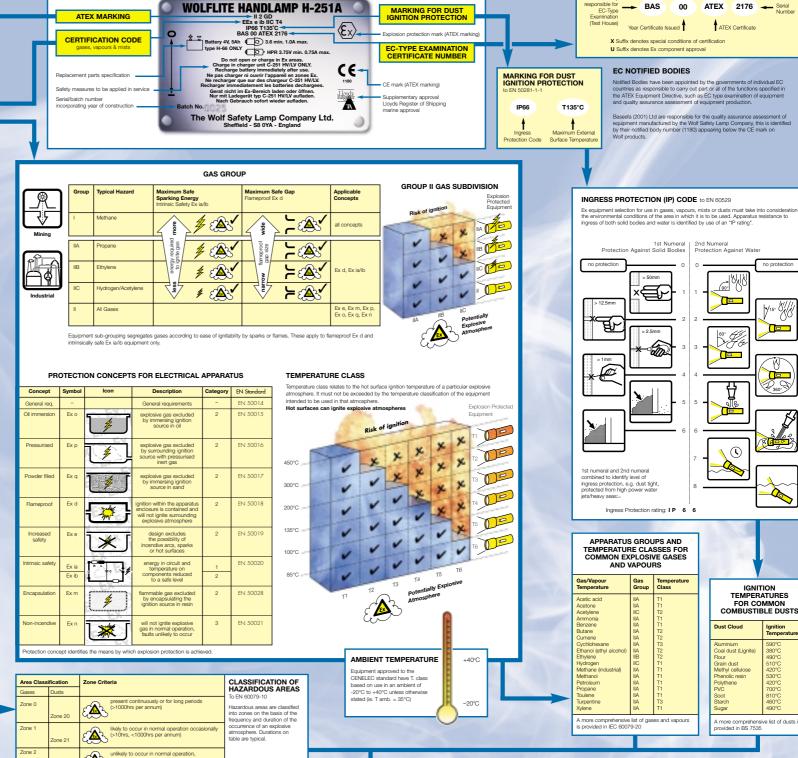
- assessment based strategy for the prevention or explosions. Incese congainors include:

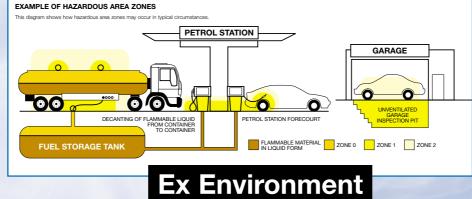
 Generation of an explosion protection document, evaluating explosion risk, including;
 likelihood of the presence of the explosive atmosphere, the presence of ignition sources
 (including electrostatic discharge), identification of the substances and processes in use,
 definition of specific measures taken to safetyard the health and safety of workers.

 Classification of areas into zones and marking points of entry with safety signs.
- Appropriate training and supervision for workers.
 Use of written instructions and permits to work.
- Special requirements for work equipment:
 Equipment in service before 30 June 2003 may continue to be used after this date if the explosion protection document indicates it can be safely used.
- Equipment brought into service after 30 June 2003 must be CE marked as compliant with the 94/9/EC ATEX (Equipment) Directive.
- Ose of protective instances appropriate or the greatest potential risk. Selection of appropriate equipment by referencing the explosion protection documents of the protection of the control of the con

THE DANGEROUS SUBSTANCES AND EXPLOSIVE ATMOSPHERES REGULATIONS 2002.

In the UK the 99/92/EC ATEX workplace Directive will be implemented as The Dangerous Substances Explosive Atmospheres Regulation 2002 (DSEAR). These regulations will also include the safety aspec the 98/24/EC Chemical Agents Directive, resulting in fammable and dangerous substances being cow by a simple set of regulations, thus reducing the volume of legislation covering this area. A copy of the DSEAR regulations is available at: http://www.hrso.gov.uk/eis/82002/20022776.htm A guide to DSEAR, published by the Health and Safety Executive can be downloaded at: http://www.hss.gov.uk/spd/dsear/htm













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EN 1127-

EN 60079-14

EN 60079-17

IEC 60079-19



€x II 2 G EEx e ib IIB T4









Wolf ATEX Safety Torches Fy II 2 GD FFx e ib IIC T6 IP67 T65°C Ex II 2 GD EEx e ib IIC T4 (Tamb=40/55°C) IP67 T95°C (Tamb=55°C)

ASSOCIATED STANDARDS

Repair and overhaul of apparatus

ion-Electrical Equipment for use in potentially explosive gases, vapours, mists and dusts

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