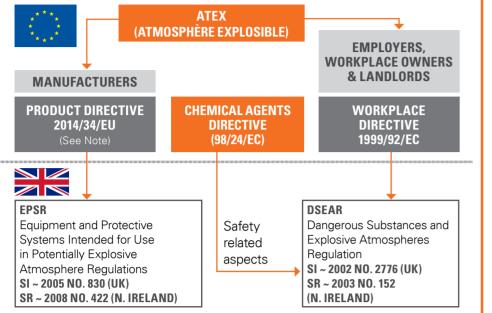


ATEX AND DSEAR: GUIDANCE FOR END USERS



RELATIONSHIP BETWEEN EUROPEAN AND UK LEGISLATION



NOTE: ATEX PRODUCT DIRECTIVE 94/9/EC HAS BEEN SUPERSEDED BY NEW DIRECTIVE 2014/34/EU, THE NEW DIRECTIVE IS APPLICABLE FROM 20/4/16. RELEVANT STATUTORY

INSTRUMENTS ARE ALSO DUE TO CHANGE IN 2016.

ATEX WORKPLACE DIRECTIVE AND DSEAR COMPLIANCE OVERVIEW

| PROVISIONS | DSEAR (UK) | ATEX 1999/92/ EC | GUIDANCE |
|--|--------------------------|-----------------------|--|
| Assess the risks and identify the necessary control measures | Reg 5 | Article 4.1 | HSE ACOP L138 |
| Implement the necessary technical and organisational measures including suitable provision for accidents, incidents and emergencies. | Reg 6, Schedule 1 | Article 3 | HSE ACOP L138 |
| Classify the areas where potentially explosive atmospheres may exist into zones | Reg 7, Schedule 2 | Article 7.1 | EN 60079-10-1 EN 60079-10-2 Industry Codes |
| Mark the classified areas using the appropriate warning signs | Reg 7, Schedule 4 | Article 7.3 | |
| Inspect, assess, modify or replace the equipment on the basis of the level of risk and the ability of the equipment to create a source of ignition | Reg 5 & 6, Schedule 1 | Article 3 & 4.1 | EN 60079-14 EN 60079-17 EN 60079-19 |
| Ensure personnel at risk, and others who may be affected, receive appropriate training | Reg 9 | Annex II 1.1 | |
| Create and maintain an Explosion Protection Document (EPD–ATEX 99/92/EC requirement only) or equivalent document referencing the necessary information (UK only) for the identified hazardous areas. Documentation must include an effective equipment maintenance and inspection regime | Reg 5 | Article 8 | HSE ACOP L138 EN60079-17 |
| Regularly review and audit the areas and systems to ensure that they remain effective | Reg 5 | No specific reference | HSE ACOP L138 |

Note 1: DSEAR Reg 7(4), ATEX 99/92/EC, Annex II 2.8 Prior to new plant and facilities being used for the first time, the overall explosion safety shall be verified by a competent person Note 2: DSEAR Reg 11 Article 6, where workers from several undertakings are present in same workplace, the employer responsible for that workplace must co-ordinate the health and safety measures

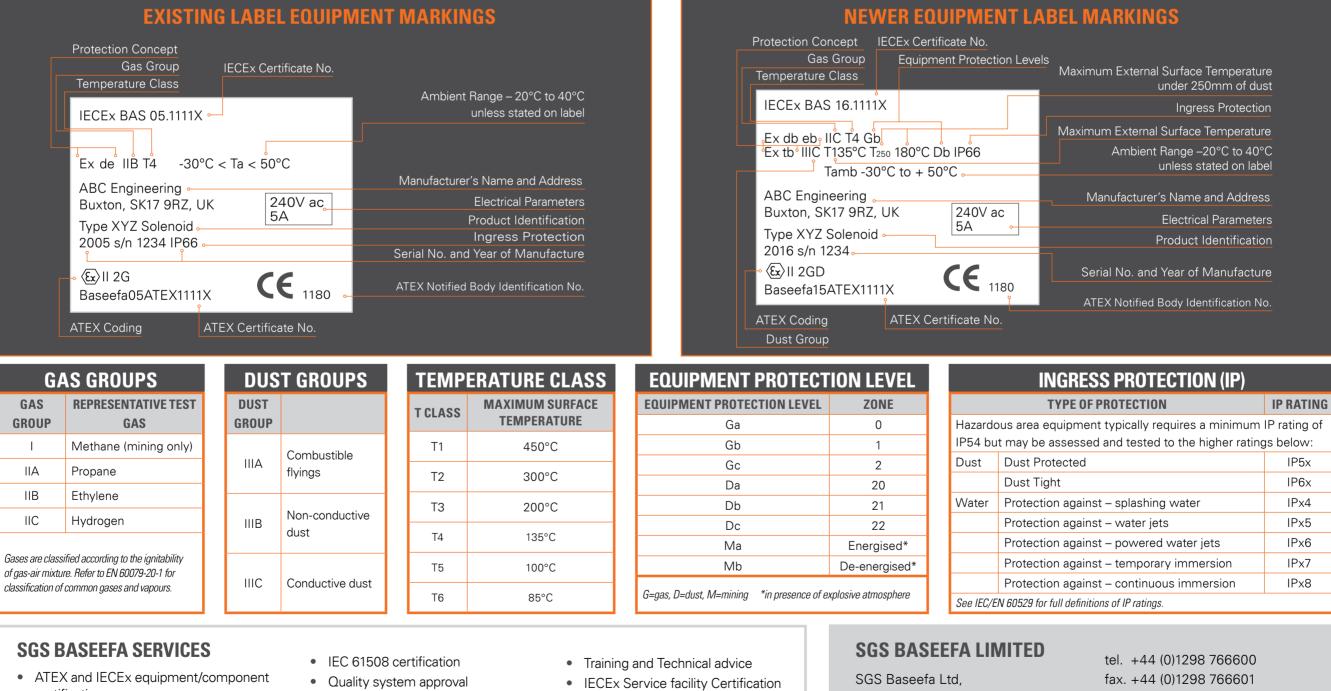
| Zones | | ZONES AND EQUIPMEI BROAD DEFINITIONS OF ZONES (FOR GUIDANCE ONLY) | ATEX EQUIPMENT | EQUIPMENT INTEGRITY REQUIREMENTS |
|----------------------|-------|---|--------------------|--|
| Gases and Vapours | Dusts | | CATEGORY | |
| 0 | 20 | Explosive atmosphere is present continuously, for long periods or frequently | 1 | Equipment must be safe under normal operation, expected and rare malfunction |
| 1 | 21 | Explosive atmosphere is likely to occur under normal operation, occasionally | 2 | Equipment must be safe under normal operation, expected malfunction |
| 2 | 22 | Explosive atmosphere is unlikely to occur in normal operation and, if it does, will persist for a short period only | 3 | Equipment must be safe under normal operation. |
| | | rective 94/9/EC has been superseded by new Directive 2014 ruments are also due to change in 2016 | /34/EU, the new Di | irective is applicable from 20/4/16. |

ATEX CODING 🗝 🕼 🛛 🔶 🛛 🗸 EU EXPLOSIVE ATMOSPHERE SYMBOL -EQUIPMENT GROUP

| RELEVANT STANDARDS AND GUIDANCE | | | | |
|---|---|--|--|--|
| AREA OF GUIDANCE | STANDARD OR APPROVED CODE OF PRACTICE (ACOP) | | | |
| General Guidance DSEAR Compliance | ACOP L138 Dangerous Substances and Explosive Atmospheres. Available as free download from http://www.hse.gov.uk/pubns/books/l138.htm | | | |
| Hazardous Area classification | EN 60079-10-1 – Classification of hazardous areas for explosive gas atmospheres EN 60079-10-2 – Classification of areas where combustible dusts are or may be present | | | |
| Electrical installation of equipment | EN 60079-14 Explosive atmospheres – Part 14: Electrical installations design, selection and erection | | | |
| Electrical Equipment inspection | EN 60079-17 Explosive atmospheres – Part 17: Electrical installations inspection and maintenance | | | |
| Non electrical equipment ignition hazard assessment | EN 13463-1 Non-electrical equipment for potentially explosive atmospheres. Basic method and requirements Note: This standard relates to new equipment but is useful for retrospective assessment of existing equipment | | | |
| Electrostatics | PD CLC/TR 60079-32-1: Explosive atmospheres Part 32-1: Electrocstatic hazards, guidance (See part 32-2 for testing). | | | |

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EQUIPMENT CATEGORY

- certification IECEx Certificate of Personnel Competence
- Assistance with DSEAR
 - Technical file storage (ATEX user directive) Implementation Testing
- Rockhead Business Park, Staden Lane, Buxton, SK17 9RZ
- e-mail: baseefa@sgs.com www.sgs.co.uk/sgsbaseefa





WHEN YOU NEED TO BE SURE