

**INSTRUMENTS HAVE ALSO CHANGED** 

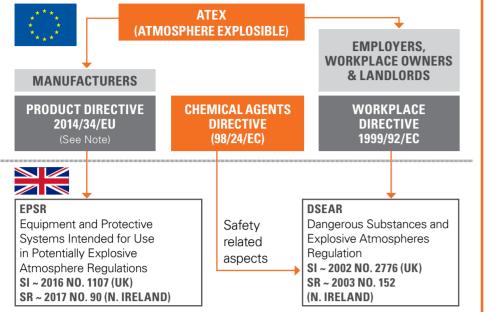
EU EXPLOSIVE ATMOSPHERE SYMBOL —

EQUIPMENT GROUP

## **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NOTE: ATEX PRODUCT DIRECTIVE 94/9/EC HAS BEEN SUPERSEDED BY NEW DIRECTIVE 2014/34/EU, THE NEW DIRECTIVE IS APPLICABLE FROM 20/4/16.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 **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 organizational 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 AND EQUIPMENT CATEGORIES						
Zones		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		

## **RELEVANT STANDARDS AND GUIDANCE**

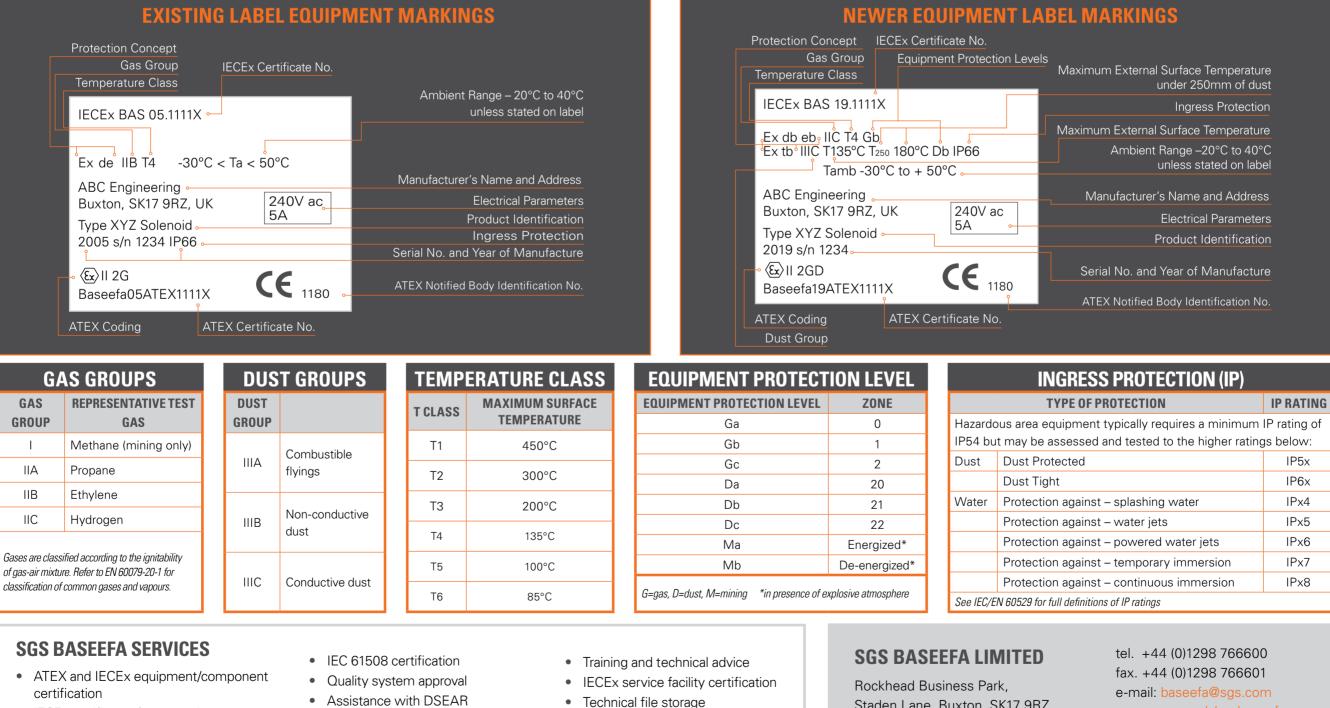
AREA OF GUIDANCE	STANDARD OR APPROVED CODE OF PRACTICE (ACOP)		
General Guidance DSEAR Compliance	ACOP L138 Dangerous Substances and Explosive Atmospheres. Available as free download here		
Hazardous area classification	EN 60079-10-1 – Classification of hazardous areas for explosive gas atmospheres EN 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/ISO 80079-36 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: Electrostatic hazards, guidance (See part 32-2 for testing)		

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**ATEX CODING** 

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EQUIPMENT CATEGORY

- IECEx certificate of personnel competence
- (ATEX user directive) implementation Testing

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