

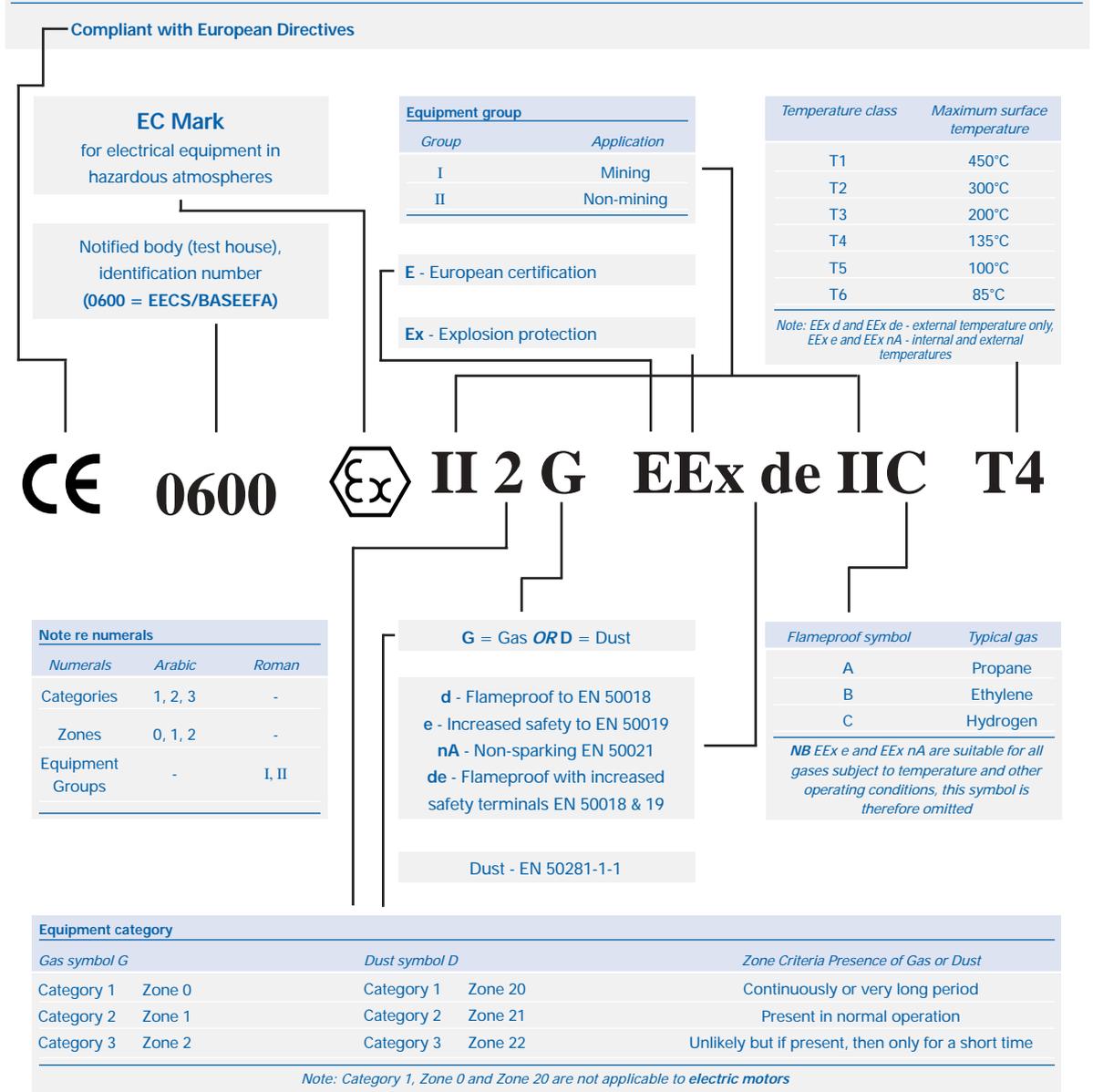
A blue-tinted photograph of industrial machinery, likely a factory or power plant, featuring large cylindrical components and pipes. The text 'ATEX Directive' is overlaid in white on the left side of the image.

ATEX Directive

The user's guide

Hazardous atmosphere motor marking

European Directives	ABBV	Ref Nos	Items covered	
CE MARKING	Low Voltage Directive	LVD	73/23/EEC 93/68/EEC	Electrical equipment Range 50 - 1000 volts, ac
	Electromagnetic Compatibility	EMC	89/336/EEC 92/31/EEC 93/68/EEC	EN 60034-1
	Machinery Directive	MD	89/392/EEC 91/368/EEC 93/44/EEC 93/68/EEC	Not applicable to electric motors as they are 'components'
	ATEX Directive	ATEX	94/9/EC	Hazardous atmosphere Equipment - mandatory after 30/6/2003



Dust are marked differently, eg:
CE 0600 Ex II 2 D T125°C
 T125°C = certified external surface temperature

Brook Crompton and ATEX

Brook Crompton and ATEX

Brook Crompton has a wealth of experience in manufacturing motors for use in hazardous locations. Our EECS/BASEEFA certified motors drive plants throughout the world safely and efficiently.

It is no surprise that Brook Crompton has a full programme of product development to ensure that its range of motors for use in hazardous atmospheres will comply to the ATEX Directive well before the mandatory date of 1 July 2003.

Our complete range of EEx nA, EEx e and dust hazard motors already complies with ATEX. EEx d motors will comply during 2002.

ATEX in reality

The ATEX Directive is not mandatory until 1 July 2003. In practice this means:

- equipment purchased and commissioned before 1 July 2003 need not conform, provided it is certified to the relevant standard and is suitable for the environment, having been correctly installed and maintained
- equipment purchased before 1 July 2003 but not commissioned before 1 July 2003 will have to conform to the ATEX Directive - for further details, see Directive 1999/92/EC, commonly called the 137 Directive

Does ATEX affect me?

The ATEX (ATmospheres EXplosible) Directive is the European Directive 94/9/EC. It affects all manufacturers and users of equipment (mechanical or electrical) for use in hazardous atmospheres and is mandatory from 1 July 2003.

The main purpose is to remove barriers to trade throughout the European Community. It also lays down specific safety requirements for users of such equipment.

The ATEX Directive is complementary to other directives such as Machinery Directive, Low Voltage Directive and Electromagnetic Compatibility. To show compliance with any of these directives, equipment is CE-marked accordingly. It is further complemented by the 'USE' Directive (1999/92/EC), which sets down the requirements for the safety and health protection of workers potentially at risk from explosive atmospheres.

Essential elements of ATEX:

Notified bodies

These were previously referred to as Testing Authorities. EECS/BASEEFA is a UK Notified Body and currently provide Brook Crompton's ATEX approval.

Standards

Standards must be current. This may mean, as with dust, entirely new standards. In the case of others, eg EEx d motors, the standards have remained the same in substance - the latest editions contain only small detail changes.

Zones

Zones remain the same as previously for gas but in the case of dust, a new system using Zones 20, 21 and 22 has been introduced.

Equipment categories

Equipment categories are another change which has been introduced. Equipment will now have a category number appropriate to the Zone for which it is intended to operate (see table on page 2).

Conformity assessment

A process identical with the current certification procedure. In addition, a Notified Body - in our case EECS/BASEEFA, carries out quality assessment and constructs and maintains the technical file.

Marking

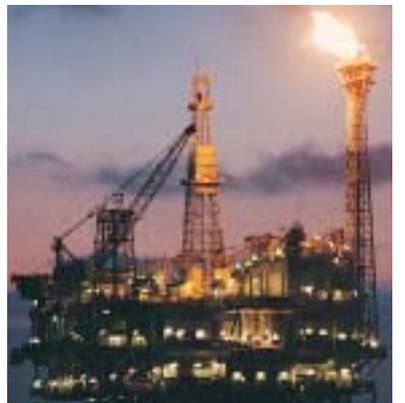
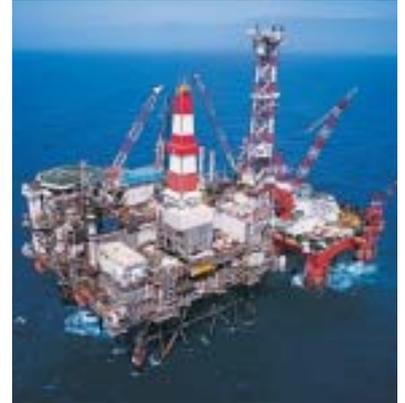
This is the area of greatest visible change and is detailed opposite. Motors for gas or vapour hazards will contain the familiar marking (EEx de IIC T4 for example), preceded by a string of symbols.

Documentation

Specific installation and maintenance instructions are a mandatory part of obtaining approval and must be supplied for all ATEX compliant orders.

Brook Crompton can assure you that our full range of hazardous area motors are certified to the latest standards. We are committed to giving our full support to all equipment suppliers for equipment being used in hazardous atmospheres.

For further details of our product range, visit our website at www.brookcrompton.com or contact one of our sales offices.



Rotating Electrical Machines

Every care has been taken to ensure the accuracy of the information contained in this publication, but, due to a policy of continuous development and improvement the right is reserved to supply products which may differ slightly from those illustrated and described in this publication



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