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## Safety Engineering in Potentially Explosive Hazardous Areas ATEX Non-Electrical Equipment

### **Manufacturers' Responsibilities**

If you manufacture equipment, protective systems or components for use in potentially explosive atmospheres within the Europe Union, they must comply with the ATEX 94/9/EC European Directive. This directive became mandatory under European law on 1st July 2003 and must be addressed if you intend CE marking your products.

Traditionally, explosion protection concepts were only applied to electrical equipment. However, the scope of Directive 94/9/EC also includes non-electrical equipment, such as mechanical pumps, gear boxes and conveyors, which need to comply with the requirements of the Directive if they are intend for use in potentially explosive atmospheres.

TÜV SÜD Product Service can advise on the different conformity assessment classified by the ATEX Directive in procedures required for equipment categories 1,2 and 3 (the lower the number the greater the level of protection required) and can provide a level of service which spans full EC certification to help with self assessment.



TÜV SÜD Product Service can also hold your technical construction file for category 2 equipment. For category 3 equipment we can provide safety assessments that will provide peace of mind to your customers that the review has been carried out by an independent internationally recognised safety organisation.

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### **TÜV SÜD Safety Engineering**

For large systems that comprise a number of ATEX approved components, manufacture of the overall assembly must ensure compatibility of the components with the intended area classification. There also needs to be an ignition hazard assessment in accordance with the Directives 94/9/EC and 99/92/EC.

By using TÜV SÜD Product Service to perform temperature mapping and conduct ignition hazard assessment either at your factory or on site at the finished installation, you will benefit from a competent and flexible team, which can fit around your operations.

### **TÜV SÜD Risk Assessment**

In the United Kingdom, the management of safety in hazardous areas is defined by regulations within DSEAR (Dangerous Substances & Explosive Atmospheres Regulations). These regulations are the UK's interpretation of the European ATEX worker Directive 99/92/EC and state that all risks must be assessed and actions taken on the findings of these risk assessments.

When Non-electrical equipment is used within a formally classified area it must be assessed for its ignition potential. Our experienced engineers can provide the risk assessment for inclusion within your site DSEAR documentation, which is mandatory for equipment installed on site before 1st July 2003.

#### **Our commitment to you:**

- A global team of engineering specialists, working together for you
- Complete programme support through the entire phase of design, development, and commissioning process
- Benefit from knowledge and experience accumulated from our involvement in major test programs across many industrial sectors
- Add value to your business by saving time and money, and adding extensive experience to your project when you need it.

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