



The ATEX product directive 94/9/EC governs the marketing of products used in hazardous, explosive areas.

The purpose of the directive is to protect people who work in explosive areas.

The term ATEX stands for the French abbreviation 'Atmosphère explosible' and is used as a synonym for the two European Union directives in the field of explosion protection, the ATEX Directive 94/9/EC and the ATEX Directive 1999/92/EC.

Explosive areas are divided into zones depending on the frequency and duration of the occurrence of hazardous explosive atmospheres. The zones are defined as shown in the table below.

Classification of explosive areas	
	Zone 0 is an area in which explosive atmospheres as a mixture of air and flammable gases, vapours or mists are present either constantly, over long periods or frequently. The term 'frequently' is used in the send of 'most of the time', in other words, Zone 0 classification is assigned to explosive areas when an explosive atmosphere is present for more than 50% of system operating time. Generally, this is only the case with the interior of pipes and tanks.
Gases	Zone 1 is an area in which explosive atmospheres as a result of a mixture of air and flammable gases may occur occasionally during normal operative conditions, vapours or mist. If the existence of an explosive atmosphere exceeds a time period of approx. 30 minutes per years, or if this occurs occasionally, i.e. daily, but remains less than 50% of system operating time, the area is generally considered as zone 1.
	Zone 2 is an area in which explosive atmospheres as a result of a mixture of air and flammable gases, vapours or mist do not normally occur or occur for a short time only during normal operating conditions. Experts generally agree that the term 'short time' corresponds to a period of approx. 30 minutes per year. It is also established that explosive atmospheres during normal operating conditions in such areas are not normally to be expected. If an explosive atmosphere occurs for a short time once per year, the area should be classified as zone 2.

COLASIT offers plastic ventilation units for ex zones 1 and 2.

All atex fans meet the standard temperature class T3 (200-300°C). A version with temperature class T4 (135-200°C) is also available as an option.

COLASIT fans are suitable for the extraction of explosive gases from group II G (explosion groups IIA, IIB and hydrogen), in accordance with EN14986.

