

General Information

Zone-CLASSIFICATION	PRODUCT CATEGORY	COMFORMITY-ASSESSMENT	SUITABLE PROTECTION TYPES
Gas: Zone 0 Dust: Zone 20	Category 1 for products, with a very high protection level, for application in areas with permanent or frequent existence of explosive atmospheres.	For all products EU type examination plus Approval of quality assurance or Product examination	two different redundant and independent protection types of category 2 or intrinsic safety ia
Gas: Zone 1 Dust: Zone 21	Category 2 for products, with a high protection level, for application in areas with occasional existence of explosive atmospheres.	For electrical products and combustion engines EU type examination plus Approval of quality assurance of the product or Type conformity	spezific protection types: ia, ib – intrinsic safety d – flameproof enclosure e – increased safety p – pressurized enclosure o – oil immersion q – powder filling m – encapsulation
		For non-electrical products Deposition of documents plus Internal production control at manufacturer	fr – flow restricting enclosure c – constructional safety b – control of ignition source k – liquid immersion
Gas: Zone 2 Dust: Zone 22	Category 3 for products with a regular safety standard, for applications in areas with rare and short-term existence of explosive atmospheres.	For all products Internal production control at manufacturer	spezific protection types: see category 2

Single testing may be applicable for each category and each product.

For further information see www.europa.eu or www.newapproach.org

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