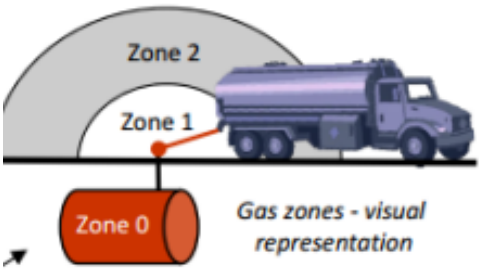
II 2 GD EEx d IIB T6

EU Explosive atmosphere symbol	Equipment group	Equipment category	Gas / Dust
	I Mining: M1= Energised M2 = De-energised		Zones:
	II Non-Mining:	1 = Very high protection 2 = High protection 3 = Normal protection	Gas: 0, 1, 2 — Dust: 20, 21, 22

Gas Group	Gas Groups: Sample gas	Temp Code	Max Surface Temp Deg C
I	Methane (mining only)	T1	450
		T2	300
		T3	200
		T4	135
		T5	100
IIA	Propane	T6	85
IIB	Ethylene		
IIC	Hydrogen		

Type of protection	Cenelec Code
Intrinsic safety	EEx ia / ib
Increased safety	EEx e
Flameproof	EEx d
Pressurisation	EEx p
Powder filing	EEx q
Encapsulation	EEx m
Oil immersion	EEx o
Type 'n'	EEx n



Gas zones - visual representation

Zone Definitions		
Zones — Gas	Zones — Dust	Definitions
0	20	A place in which an explosive atmosphere is continuously present
1	21	A place in which an explosive atmosphere is likely to occur in normal operation occasionally
2	22	A place in which an explosive atmosphere is not likely to occur in normal operation but if it does, only occurs for short periods

Categories	
ATEX Category	Typical Zone Suitability
1G 1D	Equipment suitable for Zone 0 Equipment suitable for Zone 20
2G 2D	Equipment suitable for Zone 1 Equipment suitable for Zone 21
3G 3D	Equipment suitable for Zone 2 Equipment suitable for Zone 22