



ATEX Certification Definitions

Equipment Groups

I	Mining
II	Non-mining

Gas Groups

IIC	Acetylene
IIC	Hydrogen
IIB	Ethylene
IIA	Propane
II	Any Gas

Temperature Class

T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

Equip. Cat.	Zone		Definition
	Gas	Dust	
1	0	20	Very high protection, for areas which are permanently or highly probable to be hazardous
2	1	21	High protection, for areas that are probably hazardous
3	2	22	Normal protection, for area which are unlikely to be hazardous

Ingress Protection – IP Codes			
Dust		Water	
5	Dust-protected	4	Splashing
6	Dust-tight	5	Jetting
		6	Power jetting
		7	Temporary immersion

Types of Protection	ATEX Code	Zone	Definition
GAS			
Intrinsic Safety	Ex ia	0,1,2	Limits energy below that of which may cause an ignition
Increased Safety	Ex e	1,2	Installation precautions are made to limit excessive temperature and sparks
Flame-proof	Ex d	1,2	Contains any explosions within the enclosure
DUST			
Enclosure	Ex dT	20, 21, 22	Dust-tight

Enclosure		
Code	Zone	Category
A20	20	1
A21	21	2

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