

Wolf Safety Lamp Company

Wolf ATEX Explained



ATEX 2176 Serial Number

Ex Equipment

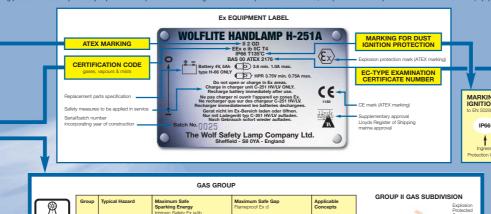


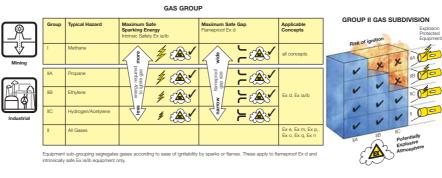
EQUIPMENT GROUP & EQUIPMENT CATEGORY						
	Equipment Group	Equipment Category	Protection Level	Hazard		Use
				Gas	Dust	
	I	M1	Very high protection	-	- 1	Operable in Ex atmosphere
Mining		M2	High protection	-	-	De-energised in Ex atmosphere
		1	Very high protection	G		Zones 0,1,2,
(ا					D	Zones 20,21,22
		2	High protection	G		Zones 1,2
					D	Zones 21,22
Industrial		3	Normal protection	G		Zones 2
					D	Zones 22
Equipment Group and Category identify the areas in which equipment may be safely used						

MANDATORY WITHIN THE EU

WORKPLACES IN OPERATION BEFORE JULY 2003 MUST COMPLY BY JULY 2006.

DSEAR - THE DANGEROUS SUBSTANCES AND EXPLOSIVE ATMOSPHERES REGULATIONS 2002.





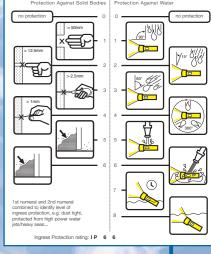
General req.	-		General requirements	-	EN 60079-0
Oil immersion	Exo		explosive gas excluded by immersing ignition source in oil	2	EN 50015* (EN 60079-6)
Pressurised	Exp		explosive gas excluded by surrounding ignition source with pressurised inert gas	2	EN 60079-2
Powder filled	Exq		explosive gas excluded by immersing ignition source in sand	2	EN 50017* (EN 60079-5)
Flameproof	Ex d		ignition within the apparatus enclosure is contained and will not ignite surrounding explosive atmosphere	2	EN 60079-1
Increased safety	Exe	[*J	design excludes the possibility of incendive arcs, sparks or hot surfaces	2	EN 60079-7
Intrinsic safety	Ex ia	TREE LA	energy in circuit and temperature on	1	EN 50020*
	Ex ib		components reduced to a safe level	2	(EN 60079-11)
Encapsulation	Ex m	#	flammable gas excluded by encapsulating the ignition source in resin	2	EN 60079-18
Non-incendive	Exn		will not ignite explosive gas in normal operation, faults unlikely to occur	3	EN 60079-15



rea Classification		Zone Criteria	CLASSIFICA
ases	Dusts		HAZARDOL
one 0	Zone 20	present continuously or for long periods (>1000hrs per annum)	To EN 60079-10 Hazardous areas into zones on the frequency and d
one 1	Zone 21	likely to occur in normal operation occasionally (>10hrs, <1000hrs per annum)	occurrence of ar atmosphere. Du table are typical.
one 2	Zone 22	unlikely to occur in normal operation, if it does will only be for short periods (<10hrs per annum)	

INGRESS PROTECTION (IP) CODE to EN 60529

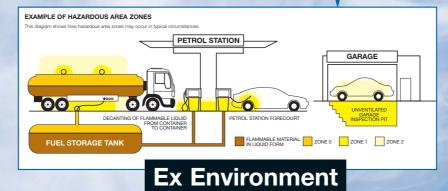
EC NOTIFIED BODIES

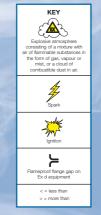


APPARATUS GROUPS AND TEMPERATURE CLASSES FOR COMMON EXPLOSIVE GASES AND VAPOURS				
Gas/Vapour	Gas	Temperature		
Temperature	Group	Class		
Acetic acid	IIA	T1		
Acetone	IIA	T1		

i	Gas/Vapour Temperature	Gas Group	Temperature Class
	Acetic acid Acetone Acetylene Ammonia Benzene Butane	IIA IIA IIC IIA IIA IIA	T1 T1 T2 T1 T1 T1 T2
	Cumene Cychlohexane Ethanol (ethyl alcohol) Ethylene Hydrogen Methane (industrial) Methanol Petroleum Propane Toulene Turpentine Xylene	IIA IIA IIB IIC IIA IIA IIA IIA IIA	T2 T3 T2 T2 T1 T1 T1 T1 T1 T1 T1 T1 T1
	A more comprehensive is provided in IEC 6007	list of gas	

COMBOSTIBLE DOSTS				
Dust Cloud	Ignition Temperature			
Aluminium Coal dust (Lignite) Flour Grain dust Methyl cellulose Phenolic resin Polythene PVC Sont	590°C 380°C 490°C 510°C 420°C 530°C 420°C 700°C 810°C			
Starch Sugar	460°C 490°C			

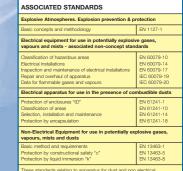




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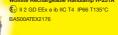




(II 2 GD EEx e ib IIC T6 IP67 T6 II 2 GD EEx e ib IIC T4 (Taml IP67 T95°C (Tamb=55°C)









€ II 2 GD EEx e ib IIC T4 IP67 T135°





















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