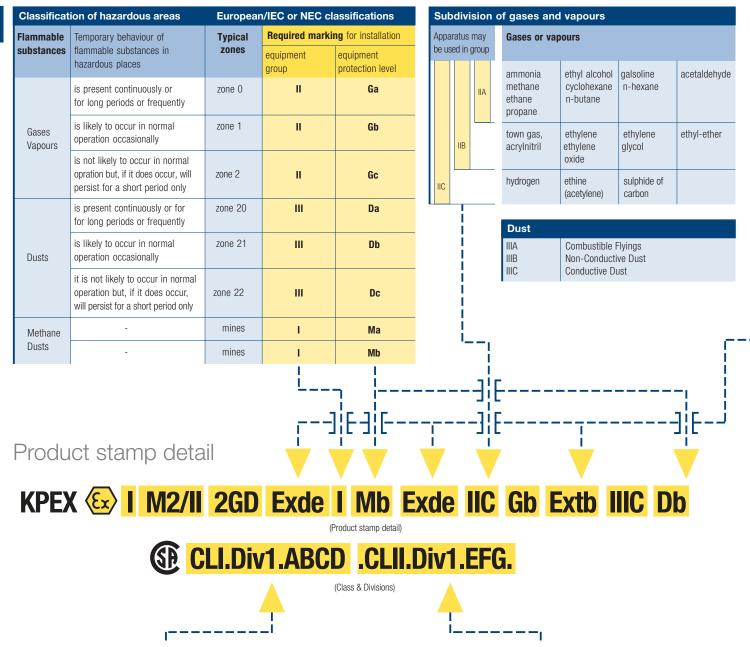
Standards, zone definitions & product markings Kopex-Ex - Product marking guide



CLI (Class I), Div 1

Where ignitable concentrations of flammable gases, vapours or liquids are present within the atmosphere under normal operation conditions.

CLI (Class I), Div 2

Where ignitable concentrations of flammable gases, vapours or liquids are present within the atmosphere under abnormal operation conditions.

Class I areas

Group A: Acetylene / Group B: Hydrogen /

Group C: Propane & Ethylene / Group D: Benzene, Butane & Propane.

CLII (Class II), Div 1

Where ignitable concentrations of combustible dusts are present within the atmosphere under normal operation conditions.

CLII (Class II), Div 2

Where ignitable concentrations of combustible dusts are present within the atmosphere under abnormal operation conditions.

Class II areas

Group E: Metal Dust / Group F: Carbon & Charcoal / Group G: Flour, Starch, Wood & Plastic.

Restriction for using apparatus		Protection technique				
Requirements	Marking	Application	Type of protection		Marking	EN/IEC standard
Equipment without restriction Equipment with special condition may be noted Ex component, which is not intended to be used alone and requires additional certification before being used in hazardous area	_	All applications	General requirements		-	60079-0
	X U	Control stations, motors, fuses, switchgear, power electronics	Flameproof enclosure	4	Ex d	60079-1
		Installation materials, motors, luminaries	Increased safety	X	Ex e	60079-7
		Measurement and control, automation technology, sensors, actuators	Intrinsic safety		Ex i	60079-11
		Switch- and control cupboards, analyse-apparatus, computers	Pressurisation	多人	Ех р	60079-2
		Coils of motors or relays, solenoid valves	Encapsulation	8	Ex m	60079-18
		Transformers, relays, control stations, magnetic contactors	Oil immersion	包	Ех о	60079-6
		Capacitors, transformers	Powder filling	4	Ex q	60079-5
		See at the top - only for zone 2	'Non sparking'		Ex n	60079-15
		For use in zone 0, 1, 2 / for use in zone 1, 2	Dust atmospheres		Ex t	60079-31
	<u>i</u>	IIA T1 Acetone 735° IIA T1 Ammonia 630° Temperature Class (T) / Ignition Temperature				

IECEX SIRA09.0103 X

(Certification Number)

New Marking - EPL's (Explosion Protection Levels)

The introduction of the EPL's and changes in the EN 60079 series standard has introduced new marking requirements.

