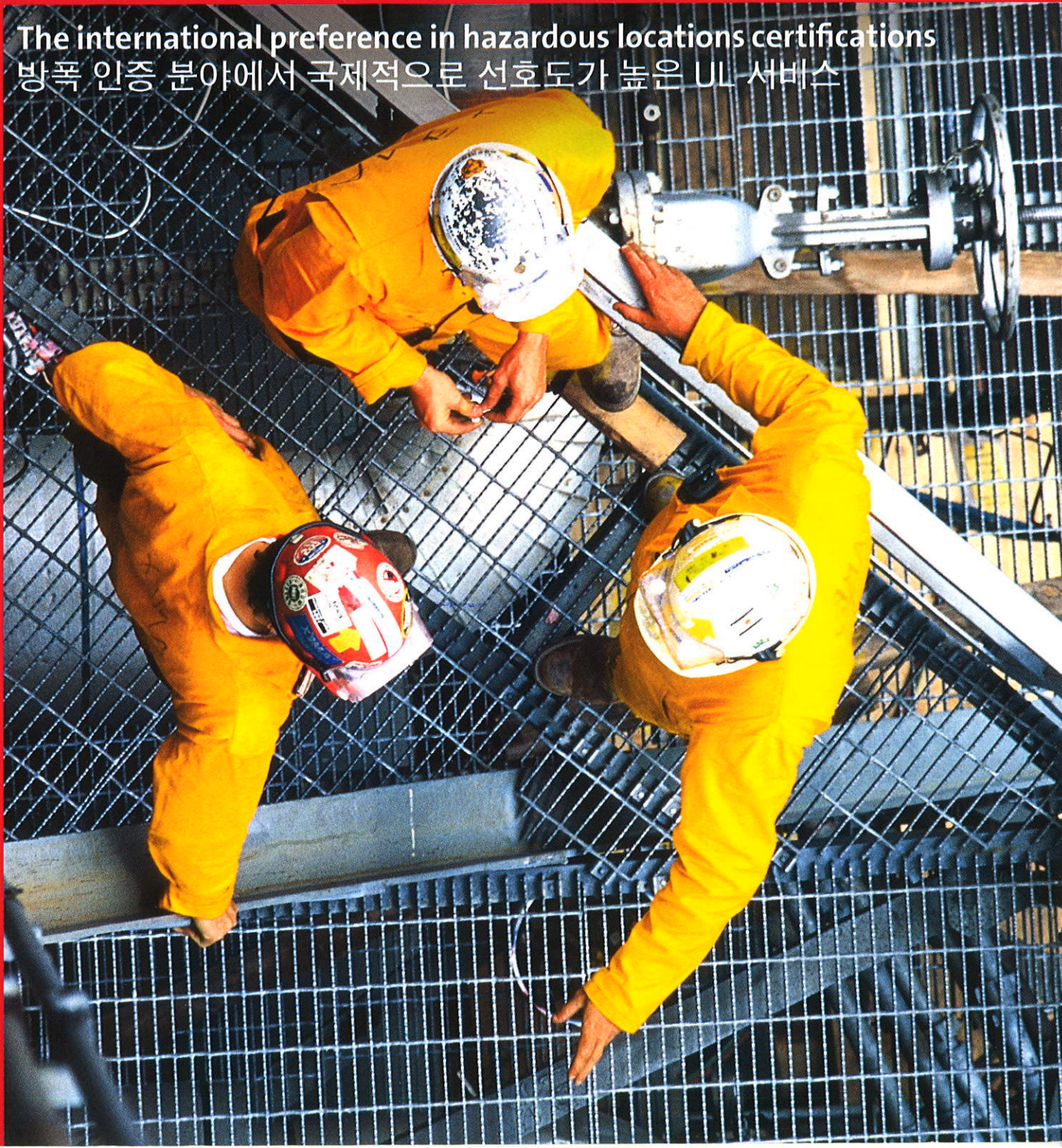




UL HAZARDOUS LOCATIONS SERVICES UL 방폭 서비스

The international preference in hazardous locations certifications
방폭 인증 분야에서 국제적으로 선호도가 높은 UL 서비스



CLASS I Flammable Gases, Vapors or Liquids

클래스 I 가연성 기체, 증기, 액체

Area Classification 구역 분류

Division 1:

Where ignitable concentrations of flammable gases, vapors or liquids can exist all of the time or some of the time under normal operating conditions.

가연성 기체, 증기, 액체 등 인화성 물질이 일반 사용 환경에서 항상 또는 일정 시간 존재하는 구역

Zone 0:

Where ignitable concentrations of flammable gases, vapors or liquids are present continuously or for long periods of time under normal operating conditions.

가연성 기체, 증기, 액체 등 인화성 물질이 일반 사용 환경에서 지속적 또는 장시간 존재하는 구역

Zone 1:

Where ignitable concentrations of flammable gases, vapors or liquids are likely to exist under normal operating conditions.

가연성 기체, 증기, 액체 등 인화성 물질이 일반 사용 환경에서 존재할 가능성이 있는 구역

Division 2:

Where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions.

가연성 기체, 증기, 액체 등 인화성 물질이 일반 사용 환경에서 존재할 가능성이 낮은 구역

Zone 2:

Where ignitable concentrations of flammable gases, vapors or liquids are not likely to exist under normal operating conditions.

가연성 기체, 증기, 액체 등 인화성 물질이 일반 사용 환경에서 존재할 가능성이 낮은 구역

Groups 그룹

Division 1 and 2:

- A (acetylene) (아세틸렌)
- B (hydrogen) (수소)
- C (ethylene) (에틸렌)
- D (propane) (프로판)

Zone 0, 1 and 2:

- IIC (acetylene & hydrogen) (아세틸렌 & 수소)
- IIC (acetylene & hydrogen) (아세틸렌 & 수소)
- IIB (ethylene) (에틸렌)
- IIA (propane) (프로판)

Temperature Classes 온도 등급

Division 1 and 2:

- T1 ($\leq 450^{\circ}\text{C}$)
- T2 ($\leq 300^{\circ}\text{C}$)
- T2A ($\leq 280^{\circ}\text{C}$)
- T2B ($\leq 260^{\circ}\text{C}$)
- T2C ($\leq 230^{\circ}\text{C}$)
- T2D ($\leq 215^{\circ}\text{C}$)
- T3 ($\leq 200^{\circ}\text{C}$)
- T3A ($\leq 180^{\circ}\text{C}$)
- T3B ($\leq 165^{\circ}\text{C}$)
- T3C ($\leq 160^{\circ}\text{C}$)
- T4 ($\leq 135^{\circ}\text{C}$)
- T4A ($\leq 120^{\circ}\text{C}$)
- T5 ($\leq 100^{\circ}\text{C}$)
- T6 ($\leq 85^{\circ}\text{C}$)

Zone 0, 1 and 2:

- T1 ($\leq 450^{\circ}\text{C}$)
- T2 ($\leq 300^{\circ}\text{C}$)
-
-
-
-
- T3 ($\leq 200^{\circ}\text{C}$)
-
-
-
- T4 ($\leq 135^{\circ}\text{C}$)
-
- T5 ($\leq 100^{\circ}\text{C}$)
- T6 ($\leq 85^{\circ}\text{C}$)

North American Protection Techniques 북미 방호 방식

Applicable Certification Documents 적용 표준

Area 구역 Div. 1

Protection Techniques 방호 방식

- Intrinsic safety
- Explosionproof
- Purged/pressurized (Type X or Y)
- Any Class I, Zone 0 technique

USA

- UL 913
- UL 1203
- NFPA 496
- See USA Zone 0 tech.

Canada

- CSA 157
- CSA 30
- NFPA 496
- See CAN Zone 0 tech.

Div. 2

- Hermetically-sealed
- Nonincendive
- Non-sparking
- Purged/pressurized (Type Z)
- Sealed
- Any Class I, Division 1 technique
- Any Class I, Zone 0, 1 or 2 technique

- ISA 12.12.01
- ISA 12.12.01
- ISA 12.12.01
- NFPA 496
- ISA 12.12.01
- See above
- See USA Zone 0, 1 or 2 tech.

- CSA 213
- CSA 213
- CSA 213
- NFPA 496
- CSA 213
- See above
- See CAN Zone 0, 1 or 2 tech.

Note: Class I, Division 1 intrinsically safe system requirements are contained in UL 913 (USA) and CSA 157 (Canada).

주: Class I, Division 1 본질 안전 시스템 조건은 UL913(미국)과 CSA 157(캐나다)에 포함되어 있음.

International Protection Techniques (Equipment Protection Levels) 국제 방호 방식 (설비 방호 등급)

Applicable Certification Documents 적용 표준

Area 구역	Protection Techniques 방호 방식 (Equipment Protection Levels) (설비 방호 등급)	USA	Canada	IECEx System	Europe
Zone 0	- Intrinsic safety, "ia" (Ga) - Encapsulation, "ma" (Ga) or "m" for CAN - Class I, Div 1 intrinsic safety	UL 60079-11 UL 60079-18 UL 913	CSA 60079-11 CSA 60079-18 CSA 157	IEC 60079-11 IEC 60079-18 —	EN 60079-11 EN 60079-18 —
Zone 1	- Flameproof, "d" (Gb) - Pressurization, "px"/"py" (Gb) or "p" for CAN - Powder filling, "q" (Gb) - Oil immersion, "o" (Gb) - Increased safety, "e" (Gb) - Intrinsic safety, "ib" (Gb) - Encapsulation, "mb" (Gb) or "m" for CAN - Any Zone 0 technique - Any Class I, Div 1 technique	UL 60079-1 ISA 60079-2 UL 60079-5 UL 60079-6 UL 60079-7 UL 60079-11 UL 60079-18 See above See USA CID1 tech.	CSA 60079-1 CSA 60079-2 CSA 60079-5 CSA 60079-6 CSA 60079-7 CSA 60079-11 CSA 60079-18 See above See CAN CID1 tech.	IEC 60079-1 IEC 60079-2 IEC 60079-5 IEC 60079-6 IEC 60079-7 IEC 60079-11 IEC 60079-18 See above —	EN 60079-1 EN 60079-2 EN 60079-5 EN 60079-6 EN 60079-7 EN 60079-11 EN 60079-18 See above —
Zone 2	- Pressurization, "pz" (Gc) or "n" for CAN - Intrinsic safety, "ic" (Gc) or "n" for CAN - Encapsulated, "nC" (Gc) - Enclosed-break, "nC" (Gc) - Energy-limited, "nL" (Gc) - Hermetically-sealed, "nC" (Gc) - Nonincendive, "nC" (Gc) - Non-sparking, "nA" (Gc) - Restricted breathing, "nR" (Gc) - Sealed, "nC" (Gc) - Encapsulation, "mc" (Gc) or "n" for CAN - Any Zone 0 or 1 technique - Any Class I, Div 1 or 2 technique	ISA 60079-2 UL 60079-11 — UL 60079-15 — UL 60079-15 UL 60079-15 UL 60079-15 UL 60079-15 UL 60079-15 UL 60079-15 UL 60079-18 See above See USA CID1 or CID2 tech.	CSA 60079-2 CSA 60079-11 CSA 60079-15 CSA 60079-15 CSA 60079-15 CSA 60079-15 CSA 60079-15 CSA 60079-15 CSA 60079-15 CSA 60079-15 CSA 60079-15 CSA 60079-18 See above See CAN CID1 or CID2 tech.	IEC 60079-2 IEC 60079-11 — IEC 60079-15 — IEC 60079-15 IEC 60079-15 IEC 60079-15 IEC 60079-15 IEC 60079-15 IEC 60079-15 IEC 60079-18 See above —	EN 60079-2 EN 60079-11 — EN 60079-15 — EN 60079-15 EN 60079-15 EN 60079-15 EN 60079-15 EN 60079-15 EN 60079-15 EN 60079-18 See above —

Note 1: Zone 0, 1 and 2 general requirements are contained in UL 60079-0 (USA), CSA 60079-0 (Canada) and IEC/EN 60079-0 (IECEx System & Europe).

주 1: Zone 0, 1 and 2 일반 조건은 UL 60079-0 (USA), CSA 60079-0 (Canada), IEC/EN 60079-0 (IECEx Scheme & Europe)에 포함되어 있음.

Note 2: Zone 0, 1 and 2 intrinsically safe system requirements are contained in ISA 60079-25 (USA & Canada) and IEC/EN 60079-25 (IECEx System & Europe).

주 2: Zone 0, 1 and 2 본질 안전 시스템 조건은 ISA 60079-25 (USA & Canada), IEC/EN 60079-25 (IECEx Scheme & Europe)에 포함되어 있음.

Note 3: Special requirements for equipment installed in Zone 0 (Ga) areas are contained in ISA 60079-26 (USA) and IEC/EN 60079-26 (IECEx System & Europe).

주 3: Zone 0 구역에 설치되는 설비에 대한 특수 조건은 ISA 60079-26 (USA), IEC/EN 60079-26 (IECEx Scheme & Europe)에 포함되어 있음.

Note 4: Equipment Protection Levels (EPLs) are used to provide additional details regarding the level of protection against ignition in explosive atmospheres. EPLs are designated by a letter "G" for Gas, "D" for Dust or "M" for Mining, followed by a letter "a" for "very high", "b" for "high" or "c" for "enhanced" level of protection.

주 4: 설비 방호 등급(EPLs)은 폭발성 있는 환경에서 발화에 대응하는 방호 수준에 관련된 추가 세부 사항을 제공하기 위해 사용됨. EPL은 기체는 "G", 먼지는 "D", 광산은 "M"으로 표기하고 방호 수준에 따라 "매우 높음"은 "a", "높음"은 "b", "강화된"은 "c"를 앞에 붙임.

Note 5: Under the ATEX Directive (94/9/EC), the marking of Categories is additionally required. ATEX Categories are similar to EPLs in function and designation as follows, ATEX Category 1G, 2G, 3G, 1D, 2D, 3D, M1, M2 = EPL Ga, Gb, Gc, Da, Db, Dc, Ma, Mb respectively.

주 5: ATEX Directive (94/9/EC) 에는, 카테고리리에 대한 표기가 추가로 요구됨. ATEX 카테고리는 EPL과 기능과 표기가 유사함. ATEX Category 1G, 2G, 3G, 1D, 2D, 3D, 1M, 2M = EPL Ga, Gb, Gc, Da, Db, Dc, Ma, Mb.

Note 6: INMETRO certification requirements are determined by Portaria 179 as of 18 May 2010, with the associated Brazilian NBR Ex standards harmonized with the comparable IEC standards noted above.

주 6: INMETRO 인증 조건은 상기 IEC Ex 규격과 맞춰진 브라질 NBR Ex 규격과 연계하여 Portaria 179 에 의해 결정됨 (2010년 5월 18일).

CLASS II Combustible Dusts

클래스 II 가연성 분진

Area Classification 구역 분류

Division 1:

Where ignitable concentrations of combustible dust can exist all of the time or some of the time under normal operating conditions.

가연성 분진의 인화성 물질이 일반 사용 환경에서 항상 또는 일정 시간 존재하는 구역

Zone 20:

Where ignitable concentrations of combustible dust or ignitable fibers/flyings are present continuously or for long periods of time under normal operating conditions.

가연성 분진의 인화성 물질이 일반 사용 환경에서 지속적 또는 장시간 존재하는 구역

Zone 21:

Where ignitable concentrations of combustible dust or ignitable fibers/flyings are likely to exist under normal operating conditions.

가연성 분진의 인화성 물질이 일반 사용 환경에서 존재할 가능성이 있는 구역

Division 2:

Where ignitable concentrations of combustible dust are not likely to exist under normal operating conditions.

가연성 분진의 인화성 물질이 일반 사용 환경에서 존재할 가능성이 낮은 구역

Zone 22:

Where ignitable concentrations of combustible dust or ignitable fibers/flyings are not likely to exist under normal operating conditions.

가연성 분진의 인화성 물질이 일반 사용 환경에서 존재할 가능성이 낮은 구역

Groups 그룹

Division 1 and 2:

- E (metal dust — Div. 1 only)
(금속먼지-Div.1에만 해당)
- F (carbonaceous dust) (탄소질 먼지)
- G (non-conductive dust) (비전도성 먼지)

Zone 20, 21 and 22:

- IIIC (conductive dust) (전도성 먼지)
- IIIB (non-conductive dust) (비전도성 먼지)
- IIIB (non-conductive dust) (비전도성 먼지)
- IIIA (combustible flyings) (가연성 비행물체)

Temperature Classes 온도 등급

Division 1 and 2:

T1	(≤450°C)	T3A	(≤180°C)
T2	(≤300°C)	T3B	(≤165°C)
T2A	(≤280°C)	T3C	(≤160°C)
T2B	(≤260°C)	T4	(≤135°C)
T2C	(≤230°C)	T4A	(≤120°C)
T2D	(≤215°C)	T5	(≤100°C)
T3	(≤200°C)	T6	(≤85°C)

Zone 20, 21 and 22:

None. 없음

Note: Note: For Zone 20, 21 and 22, equipment shall be marked to show the operating temperature (maximum surface temperature)
주: Zone 20, 21, 22에는 설비에 사용 온도를 표시해야 할 수 있음. (최고 표면 온도)



North American Protection Techniques 북미 방호 방식

Area 구역	Protection Techniques 방호 방식	Applicable Certification Documents 적용 표준	
		USA	Canada
Div. 1	• Intrinsic safety	UL 913	CSA 157
	• Dust-ignitionproof	UL 1203	CSA 25
	• Pressurized	NFPA 496	NFPA 496
	• Any Zone 20 technique	See USA Zone 20 tech.	—
Div. 2	• Dusttight	ISA 12.12.01	CSA 157
	• Hermetically-sealed	ISA 12.12.01	—
	• Nonincendive	ISA 12.12.01	—
	• Pressurized	NFPA 496	NFPA 496
	• Sealed	ISA 12.12.01	—
	• Any Class II, Division 1 technique	See above	See above
	• Any Zone 20, 21 or 22 technique	See USA Zone 20, 21 or 22 tech.	—

Note 1: Class II, Division 1 intrinsically safe system requirements are contained in UL 913 (USA) and CSA 157 (Canada).

주 1: Class II, Division 1 본질 안전 시스템 조건은 UL 913 (미국)과 CSA 157 (캐나다)에 포함되어 있음.

Note 2: Additional Canadian requirements for Class II and Class III applications are contained in CSA 60079-31 and CSA 60079-18, each used together with CSA 60079-0.

주 2: Class II, Class III에 대한 캐나다 추가 사항은 CSA 60079-31 와 CSA 60079-18에 포함되어 있고 각 규격은 CSA 60079-0과 함께 사용됨.

International Protection Techniques (Equipment Protection Levels) 국제 방호 방식 (설비 방호 등급)

Area 구역	Protection Techniques 방호 방식 (Equipment Protection Levels) (설비 방호 등급)	Applicable Certification Documents 적용 표준			
		USA	Canada	IECEx System	Europe
Zone 20	• Enclosure, "ta" (Da)	ISA 60079-31	—	IEC 60079-31	EN 60079-31
	• Intrinsic safety, "ia" (Da)	UL 60079-11	—	IEC 60079-11	EN 60079-11
	• Encapsulation, "ma" (Da)	UL 60079-18	—	IEC 60079-18	EN 60079-18
	• Any Class II, Div 1 technique	See USA CIID1 tech.	—	—	—
Zone 21	• Enclosure, "tb" (Db) or "t" for USA	ISA 60079-31	—	IEC 60079-31	EN 60079-3
	• Pressurization, "p" (Db)	ISA 61241-2	—	IEC 61241-4	EN 61241-4
	• Intrinsic safety, "ib" (Db)	UL 60079-11	—	IEC 60079-11	EN 60079-11
	• Encapsulation, "mb" (Db)	UL 60079-18	—	IEC 60079-18	EN 60079-18
	• Any Zone 20 technique	See above	—	See above	See above
	• Any Class II, Div 1 technique	See USA CIID1 tech.	—	—	—
Zone 22	• Enclosure, "tc" (Dc)	ISA 60079-31	—	IEC 60079-31	EN 60079-31
	• Pressurization, "p" (Dc)	ISA 61241-2	—	IEC 61241-4	EN 61241-4
	• Intrinsic safety, "ic" (Dc)	UL 60079-11	—	IEC 60079-11	EN 60079-11
	• Encapsulation, "mc" (Dc)	UL 60079-18	—	IEC 60079-18	EN 60079-18
	• Any Zone 20 or 21 technique	See above	—	See above	See above
	• Any Class II, Div 1 or 2 technique	See USA CIID1 or CIID2 tech.	—	—	—

Note 1: Zone 20, 21 and 22 general requirements are contained in UL 60079-0 or ISA 61241-0 (USA), and IEC/EN 60079-0 or IEC 61241-0 (IECEx System & Europe).

주 1: Zone 20, 21 and 22의 일반 조건은 UL 60079-0 또는 ISA 61241-0 (미국), IEC/EN 60079-0 또는 IEC/EN 61241-0 (IECEx System & 유럽)에 포함되어 있음.

Note 2: Equipment Protection Levels (EPLs) are used to provide additional details regarding the level of protection against ignition in explosive atmospheres. EPLs are designated by a letter "G" for Gas, "D" for Dust or "M" for Mining, followed by a letter "a" for "very high", "b" for "high" or "c" for "enhanced" level of protection.

주 2: 설비 방호 등급(EPLs)은 폭발성 있는 환경에서 발화에 대응하는 방호 수준에 관련된 추가 세부 사항을 제공하기 위해 사용됨. EPL은 기체는 "G", 먼지는 "D", 광산은 "M" 으로 표기하고 방호 수준에 따라 "매우 높음"은 "a", "높음"은 "b", "강화된"은 "c"를 앞에 붙임

Note 3: Under the ATEX Directive (94/9/EC), the marking of Categories is additionally required. ATEX Categories are similar to EPLs in function and designation as follows, ATEX Category 1G, 2G, 3G, 1D, 2D, 3D, M1, M2 = EPL Ga, Gb, Gc, Da, Db, Dc, Ma, Mb respectively.

주 3: ATEX Directive (94/9/EC)에는, 카테고리에 대한 표기가 추가로 요구됨. ATEX 카테고리는 EPL과 기능과 표기가 유사함. ATEX Category 1G, 2G, 3G, 1D, 2D, 3D, 1M, 2M = EPL Ga, Gb, Gc, Da, Db, Dc, Ma, Mb

Note 4: INMETRO certification requirements are determined by Portaria 179 as of 18 May 2010, with the associated Brazilian NBR Ex standards harmonized with the comparable IEC Ex standards noted above.

주 4: INMETRO 인증 조건은 상기 IEC Ex 규격과 맞춰진 브라질 NBR Ex 규격과 연계하여 Portaria 179 에 의해 결정됨 (2010년 5월 18일).

CLASS III Ignitable Fibers and Flyings

클래스 III 가연성 섬유질과 부유 물질

Area Classification 구역 분류

Division 1:

Where easily ignitable fibers or materials producing combustible flyings are handled, manufactured or used.

가연성 섬유질과 가연성 부유 부스러기를 만들어 내는 물질을 다루거나 생산하거나 사용하는 구역

Division 2:

Where easily ignitable fibers are stored or handled.

가연성 섬유질이 보관되거나 다루어지는 구역

Groups 그룹

Division 1 and 2:

None. 없음

Temperature Classes 온도 등급

Division 1 and 2:

None. 없음

Note: Article 503 of the NEC limits the maximum temperature for Class III equipment to 165°C for equipment not subject to overloading and to 120°C for equipment that may be overloaded.

주: NEC 503조에서는 Class III 설비의 최고 온도를 과부하가 없을 경우 165° C, 과부하가 있을 경우 120° C로 제한함.

North American Protection Techniques 북미 방호 방식

Applicable Certification Documents 적용 표준

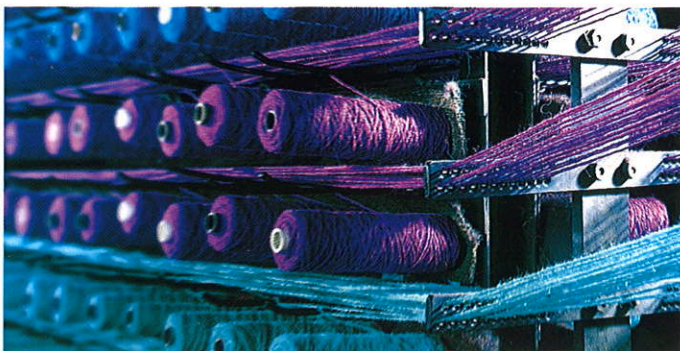
Area 구역	Protection Techniques 방호 방식	USA	Canada
Div. 1	• Intrinsic safety	UL 913	CSA 157
	• Dusttight	ISA 12.12.01	CSA 157
	• Hermetically-sealed	ISA 12.12.01	—
	• Sealed	ISA 12.12.01	—
	• Any Zone 20 technique	See USA Zone 20 tech.	—
Div. 2	• Nonincendive	ISA 12.12.01	—
	• Any Class III, Division 1 technique	See above	See above
	• Any Zone 20, 21 or 22 technique	See USA Zone 20, 21 or 22 tech.	—

Note 1: Class III, Division 1 intrinsically safe system requirements are contained in UL 913 (USA) and CSA 157 (Canada).

주 1: Class III, Division 1 본질 안전 시스템 조건은 UL 913 (미국)과 CSA 157 (캐나다)에 포함되어 있음.

Note 2: Additional Canadian requirements for Class II and Class III applications are contained in CSA 60079-31 and CSA 60079-18, each used together with CSA 60079-0.

주 2: Class II, Class III에 대한 캐나다 추가 사항은 CSA 60079-31 와 CSA 60079-18에 포함되어 있고 각 규격은 CSA60079-0과 함께 사용됨.



See
Markings
Table
on back
cover



MARKINGS

마킹

Class I, II, and III, Division 1 & 2 (USA & Canada)

This marking would include 마킹 사항 :

Class(es), Division(s), Gas/Dust Group(s), Temperature Class (T-Code)

Example: Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F and G; Class III, Division 1, T4A

Class I, Zone 0, 1, & 2 (USA)

The marking would include 마킹 사항 :

For Zone Listings based on USA 60079 series standards:

USA 60079 계열 기준에 근거한 Zone 등재의 경우:

Class, Zone, AEx, Protection Technique(s), Gas Group, Temperature Class (T-Code)

Example: Class I, Zone 1, AEx de IIB T4

For Zone Listings based on USA Division standards:

미국 Division 기준에 근거한 Zone 등재의 경우:

Class, Zone, Gas Group, Temperature Class (T-Code)

Example: Class I, Zone 1, Group IIB T4

Zone 20, 21, & 22 (USA)

This marking would include 마킹 사항 :

For Zone Listings based on USA 60079 or 61241 series standards:

USA 60079 또는 61241 계열 기준에 근거한 Zone 등재의 경우:

Zone, AEx, Protection Technique(s), Dust Group, Temperature Class (T-Code)

Example: Zone 21, AEx tb IIB T135°C

For Zone Listings based on USA Division standards:

미국 Division 기준에 근거한 Zone 등재의 경우:

Zone, Temperature Class (T-Code)

Example: Zone 21, T4

Class I, Zone 0, 1 & 2 (Canada)

This marking would include 마킹 사항 :

For Zone Listings based on CAN 60079 series standards:

CAN 60079 계열 기준에 근거한 Zone 등재의 경우:

Ex, Protection Technique(s), Gas Group, Temperature Class (T-Code)

Example: Ex de IIB T4

For Zone Listings based on CAN Division standards:

캐나다 Division 기준에 근거한 Zone 등재의 경우:

Class, Zone, Gas Group, Temperature Class (T-Code)

Example: Class I, Zone 1, Group IIB T4

Zone 0, 1, & 2 (Europe)

This marking would include 마킹 사항 :

Ex, Protection Technique(s), Gas Group, Temperature

Class, Equipment

Protection Level (EPL)

Example: Ex de IIB T4 Gb

Zone 20, 21, & 22 (Europe)

This marking would include 마킹 사항 :

Ex, Protection Technique(s),

Dust Group, Temperature

Class, Equipment Protection Level (EPL)

Example: Ex tb IIB T135°C Db

ATEX Directive (Europe)

In addition to the European Ex marking string noted above, this marking would include:

유럽Ex 마킹에 추가해야 하는 마킹 사항:

Non-mining: CE, NB Identifier, Ex, Equipment Group &

Category, G (gas)/D (dust), Date Code

Example (for DEMKO):

CE 0539 Ex II 2 G 2013

Mining: CE, NB Identifier Ex, Equipment Group &

Category, Date Code

Example (for DEMKO):

CE 0539 Ex I M2 2013

Zone 0, 1, & 2 (IECEx System)

This marking would include 마킹 사항 :

Ex, Protection Technique(s), Gas Group, Temperature Class,

Equipment Protection Level (EPL)

Example: Ex de IIB T4 Gb

Zone 20, 21, & 22 (IECEx System)

This marking would include 마킹 사항 :

Ex, Protection Technique(s), Dust Group, Temperature Class,

Equipment Protection Level (EPL)

Example: Ex tb IIB T135°C Db

INMETRO Mark (Brazil)

This marking would include 마킹 사항 :

UL/INMETRO Mark, Ex, Protection Technique(s),

Gas Group, Temperature Class, Equipment Protection Level (EPL)

Example: Ex de IIB T4 Gb