Comparison Table of Explosion-proof Standard

_	TIIS-1979(Japan)	IEC & CENELEC (Europe)	USA & Canada
Based Standard	VDE 0170/0171	IEC 79-0 - 14	NFPA 70-1987
	NFPA 1978	EN 50020/50039	ANSI/UL 913-1988
	IEC 79-0 - 12		FM 3610
			CSA C22-1986
Hazardous Locations	Class 0: I only	Zone 0: ia only	Class I, Div.1: equivalent
and Applicable Type	Class 1: I, d and f	Zone 1: ia, ib, d and f	as Class 0 & 1,
of Explosion-proof	Class 2: I, d, f, e and o	Zone 2: ia, ib, d, f, e and o	Zone 0 & 1
			Class I, Div.2: equivalent
			as Class 2, Zone 2
	Dust under Consideration	Dust under Consideration	Class II: Dust
Type of	Flameproof : d	Flameproof : d	
Explosion-proof	Pressurized : f	Pressurized : p	
	Increased safety : e	Increased safety : e	
	Intrinsic safety : I	Intrinsic safety : ia/ib	Not categorized by Types
	Oil-immersed : o	Oil-immersed : o	
	Special : s	Encapsulation : m	
		Special : s	
Gas and Dust	1 : Propane	II A: Propane	Class I Group D: Propane
Classification	2 : Ethylene	II B: Ethylene	Class I Group C: Ethylene
More	3a: Hydrogen	II C: Hydrogen	Class I Group B: Hydrogen
easily	3b: Carbon disulphide	II C: Acetylene	Class I Group A: Acetylene
ignited	3c: Acetylene		
	3n: All vapors in class 3		Class II Group G: Flour, Grain
▼			Class II Group F: Carbon dust
<u>'</u>	Dust under Consideration	Dust under Consideration	Class II Group E: Metal Dust
Temperature	G1: over 450 C	T1: over 450 C	T1: over 450 C
Classification	G2: over 300 to 450 C	T2: over 300 C	T2: over 300 C
(Ignition temperature	G3: over 200 to 300 C	T3: over 200 C	T3: over 200 C
of Applicable gas or	G4: over 135 to 200 C	T4: over 135 C	T4: over 135 C
vapor)	G5: over 100 to 135 C	T5: over 100 C	T5: over 100 C
	G6: over 85 to 100 C	T6: over 85 C	T6: over 85 C
Code Example	d2G4	Ex d II BT4	Class I, Div.2, Group C D, T4
	i3aG5	Ex ia II CT5	Class I, Div.1, Group B C D, T5

(NOTE: TIIS means Technology Institute of Industrial Safety, Ministry of Labor, Japan)

