XP	Explosionproof
IS	Intrinsically Safe Apparatus
AIS	Associated Apparatus with Intrinsically Safe Connections
ANI	Associated Nonincendive Field Wiring Circuit
PX, PY, PZ	Pressurized
APX, APY, APZ	Associated Pressurization Systems/ Components
NI	Nonincendive Apparatus and Nonincendive Field Wiring Apparatus
DIP	Dust-Ignitionproof
S	Special Protection

Class I : Gases, Vapours, Liquid
Class II : Dust
Class III: Fibers, Flyings

Division :
Div 1 = Zone 0 and 1
Div 2 = Zone 2

NEC 500	ATEX (NEC 505)
Class I/Group A	> Group IIC (Acetylen)
Class I/Group B	> Group IIB + H2 (Hydrogen)
Class I/Group C	> Group IIB (Ethylene)
Class I/Group D	> Group IIA (Propane)
Class II/Group E	> None (Metal Dust)
Class II/Group F	> None (Coal Dust)
Class II/Group G	> None (Grain Dust)
Class III	> None (Fibers)

Temperature Class
Maximum Surface Temperature

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

i.roc 627	**I.S.**	**Class I Div 1**			**Group A-D**	**T4**
Zone		**0**	**1**			
i.roc 620			**II 2 G**	**EEx ia**	**IIC**	**T4**

Temperature Classes:
(Max. temperature of a surface that gas can penetrate in the event of device failure. Should not be used in dust-ex-markings.)
T1 = 450°C
T2 = 300°C
T3 = 200°C
T4 = 135° C
T5 = 100° C
T6 = 85° C

Atmosphere
G = Gas
D = Dust
(Mining-no details)

Device Group
I = Mining
II= all other explosive areas

Category
1 = Can be used in Zones 0 or 20
2 = Can be used in Zones 1 or 21
3 = Can be used in Zones 2 or 22
M1 = Mining
(In case of firedamp, continuation of operation is possible)
M2 = Mining
(Must be switched off in case of firedamp)

EEx
Certified to the CENELEC standard

Types of Ignition Protection:
o = Oil immersion
p = Pressurisation
q = Powder filling
d = Pressure-proof housing
e = Increased safety
ia = Intrinsic safety
(required for Zone 0*)
***depends on device category**
ib = Intrinsic safety
(adequate for Zone I (+2))
m = Encapsulation
s = Special protection
n = Normal operation under normal conditions
(for Zone 2 only)
nA = Non-sparking
nC = Protected contacts
nR = Vapour-proof housing
nL = Limited energy
nP = Simplified

Explosion Group
(Data only for devices used in areas rendered potentially explosive by gas)

I = Methane (mining)
IIA = Propane
IIB = Ethylene
IIC = Most dangerous group (e.g. hydrogen)

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LIFTING PRODUCTS™