**Equipment group I:**
Equipment intended for use in underground parts of mines and in those parts of surface installations of such mines, liable to be endangered by firedamp and combustible dust.

**Equipment group II:**
Equipment intended for use in other places liable to be endangered by explosive atmospheres.

### Types of explosive atmosphere:
- **D** – Mixture of air and gases, vapors or mists
- **G** – Dust-air mixtures

### Equipment categories:
1. **Equipment category 1:** Very high level of protection – suitable for use in zones 0/20, 1/21, 2/22
2. **Equipment category 2:** High level of protection – suitable for use in zones 1/21, 2/22
3. **Equipment category 3:** Normal level of protection – suitable for use in zones 2/22

### Group Typical gases:
- **IIA** Propane
- **IIB** Ethylene
- **IIC** Hydrogen

### Temperature class:
- **T1** 450°C
- **T2** 300°C
- **T3** 200°C
- **T4** 135°C
- **T5** 100°C
- **T6** 85°C

### Types of protection – electrical:
- **Flameproof enclosure “d”**
- **Pressurized enclosure “p”**
- **Powder filling “q”**
- **Oil immersion “n”**
- **Increased safety “e”**
- **Intrinsic safety (gas + dust) “i”**
- **Electrical apparatus type of protection “n”**
- **Equipment using optical radiation “o”**
- **Protection by enclosure “t”**
- **Protection by pressurization (dust) “p”**

### Equipment Protection Level (EPL):
- **EPL “Ga”** corresponds to category 1G.
- **EPL “Gb”** corresponds to category 2G.
- **EPL “Gc”** corresponds to category 3G.
- **EPL “Da”** corresponds to category 1D.
- **EPL “Db”** corresponds to category 2D.
- **EPL “Dc”** corresponds to category 3D.

### Non-electrical types of explosion protection:
- **Constructional safety “c”**
- **Control of ignition source “b”**
- **Liquid immersion “k”**

### Electrical labeling:
- **II**
- **2**
- **D**
- **Ex**
- **tb**
- **IIIA**
- **T130°C**
- **Db**

### Non-electrical labeling:
- **II**
- **1/2**
- **G**
- **Ex**
- **h**
- **IIA**
- **T3**
- **Ga/Gb**
- **X**

*Consult with experienced experts on the new Directive 2014/34/EU*

*Effective as of April 20, 2016*