### NEC 500

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</table>

### NEC 505

- **Class Group Required**
  - Gases, vapors: AEx db, IIC, T4, Gb
  - Dusts/Fibers/Flyings: AEx db, IIC, T4, Gb

### Classification of location, explosive material (NEC 500)

- **Zone 2, Division 2**
  - Gases, vapors, dust, fibers, flyings
  - Classification of hazardous area
    - Division 1
      - Group A, B, C, D
      - Temperature: 135 °C
      - Permissible temperature classes: T4, Gb

### Protection principles and types of protection

- **Apparatus**
  - Gases, vapors, dust, fibers, flyings
  - Dusts/Fibers/Flyings

- **Marking in accordance with the equipment protection level**
  - NVE 10073-5

- **Temperature (Gases or vapors)**
  - T1: 500 °C
  - T2: 300 °C
  - T3: 200 °C
  - T4: 135 °C
  - T5: 100 °C
  - T6: 65 °C

### Standards under NEC 500

- **Class Group Required**
  - Gases, vapors: AEx db, IIC, T4, Gb
  - Dusts/Fibers/Flyings: AEx db, IIC, T4, Gb

### Equipment protection level (EPL)

- **Class Group Required**
  - Gases, vapors: AEx db, IIC, T4, Gb
  - Dusts/Fibers/Flyings: AEx db, IIC, T4, Gb

### Temperature (Dust, Fibers or flyings)

- **Class Group Required**
  - Gases, vapors: AEx db, IIC, T4, Gb
  - Dusts/Fibers/Flyings: AEx db, IIC, T4, Gb

For application (installation) the maximum permitted surfaces temperature of the equipment shall be determined by the lowest value of:

1. Ignition temperature of the dust cloud and
2. Ignition temperature of the dust layer

Both values shall be reduced by a safety factor.

For more information see also NEC 500.