# Hazardous Area Temperature Class Table (T1 to T6)

*Basis: IEC 60079 0 temperature classification and NEC Article 500 subdivisions. A gas needs a T class whose maximum surface temperature is below its autoignition temperature.*

instrumentationblog.in/downloads/engineering-reference-tables/hazardous-area-temperature-class-table/

## Temperature classes

| Class | Max surface °C | NEC subclasses (°C) | Example gases |
|---|---|---|---|
| T1 | 450 | | Hydrogen, methane, propane, ammonia |
| T2 | 300 | T2A 280, T2B 260, T2C 230, T2D 215 | Acetylene, ethylene, butane, ethanol |
| T3 | 200 | T3A 180, T3B 165, T3C 160 | Petrol, diesel, kerosene, hexane, hydrogen sulphide |
| T4 | 135 | T4A 120 | Acetaldehyde, diethyl ether |
| T5 | 100 | | Few common gases |
| T6 | 85 | | Carbon disulphide |

### Notes

- Surface temperature limits are at the stated ambient range (usually −20 to 40 °C); hotter ambients may need derating.
- Check the gas data in IEC 60079 20 1 for your actual substances.

*Free download from instrumentationblog.in. Check values against the current edition of the standard for design work.*