

**Gaseous fuels provided to Gentherm Global Power Technologies' thermoelectric generators (TEGs)⁽¹⁾:**

1. Shall not contain any particulates larger than 30 μm diameter, including but not limited to sand, dust, gums, crude oil, and impurities.
2. Shall not have a hydrocarbon dew point in excess of 0°C (32°F) at 170 kPa_g (25 psi_g).
3. Shall not contain more than 115 mg/Sm³ ⁽²⁾ (approx. 170 ppm) of H₂S ⁽³⁾.
4. Shall not contain more than 60 mg/Sm³ (approx. 88 ppm) of Mercaptan Sulpher.
5. Shall not contain more than 200 mg/Sm³ (approx. 294 ppm) of total Sulpher.
6. Shall not contain more than 10% [CO₂] and/or [N₂] by volume, nor vary more than +/- 1% [CO₂] and/or [N₂] during operation.
7. Shall not contain more than 120 mg/Sm³ water vapor.
8. Shall not contain more than 1% by volume of free oxygen.
9. Shall have a nominal higher heating value (HHV) of:
 - Natural Gas: 37 MJ/m³ (1000 BTU/cu.ft.)⁽¹⁾
 - Propane/LPG: 93 MJ/m³ (2500 BTU/cu.ft.)⁽¹⁾
 - Butane: 122 MJ/m³ (3300 BTU/cu.ft.)⁽¹⁾
10. Shall not exceed 60°C (140°F) in temperature.

Notes:

- (1) For gaseous fuels outside of these specifications, please contact Gentherm Global Power Technologies.
- (2) At 1 atm and 15°C.
- (3) Contact local representative or Gentherm Global Power Technologies if H₂S concentration is greater than 170 ppm.

Gentherm Global Power Technologies

p 403 236 5556
e gptsales@gentherm.com
w genthermglobalpower.com

16, 7875 – 57 Street SE
Calgary, Alberta, Canada T2C 5K7

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GLOBAL POWER TECHNOLOGIES