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/Sm\(^3\)\(^{(2)}\) (approx. 170 ppm) of H\(_2\)S \(^{(3)}\).
4. Shall not contain more than 60 mg/Sm\(^3\) (approx. 88 ppm) of Mercaptan Sulpher.
5. Shall not contain more than 200 mg/Sm\(^3\) (approx. 294 ppm) of total Sulpher.
6. Shall not contain more than 10% [CO\(_2\)] and/or [N\(_2\)] by volume, nor vary more than +/- 1% [CO\(_2\)] and/or [N\(_2\)] during operation.
7. Shall not contain more than 120 mg/Sm\(^3\) 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/m\(^3\) (1000 BTU/cu.ft.)\(^{(1)}\)
   - Propane/LPG: 93 MJ/m\(^3\) (2500 BTU/cu.ft.)\(^{(1)}\)
   - Butane: 122 MJ/m\(^3\) (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 H\(_2\)S concentration is greater than 170 ppm.