

ANEXA 5A Gas quality specifications (valid for deliveries from Romania to Bulgaria, under reference conditions 25°C/0°C)

Chemical compositions (in mole percent)

Methane (C1)	minimum 85
Ethane (C2)	maximum 10
Propane (C3)	maximum 3.5
Butane (C4)	maximum 1.5
Pentane (C5)	maximum 0.5
Hexane ⁺ (C6 ⁺)	maximum 0.2
Nitrogen (N2)	maximum 10
Carbon dioxide (CO2)	maximum 5
Oxygen (O2)	maximum 0.2

Sulphur content

Hydrogen sulphide (H2S)	maximum 6.5 mg/m ³
Mercaptan sulphur (C2H5SH)	maximum 20 mg/m ³
Total Sulphur	maximum 30 mg/m ³ (case of unusual conditions 100 mg/m ³ , for a period of time no longer than 48 h)

Gross Calorific Value

Minimum	10.738 kWh/m ³
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Hydrocarbon Dew Point

No hydrocarbons shall condensate at a temperature of zero degrees Celsius (0°C) at the delivery pressure.

Water dew point

Not higher than minus 8 degrees Celsius (-8° C) at a pressure of 39.2 barg.

Impurities

Content of mechanical impurities: max. 0.05 mg/m³

Temperature

maximum plus 50 °C

ANEXA 5B Gas quality specifications (valid for deliveries from Bulgaria to Romania, under reference conditions 25°C/0°C)

Chemical compositions (in mole percent)

Methane (C1)	minimum 85
Ethane (C2)	maximum 10
Propane (C3)	maximum 3.5
Butane (C4)	maximum 1.5
Pentane (C5)	maximum 0.5
Hexane+(C6+)	maximum 0.2
Nitrogen (N2)	maximum 10
Carbon dioxide (CO2)	maximum 8
Oxygen (O2)	maximum 0.02

Sulphur content

Hydrogen sulphide (H2S)	maximum 6.8 mg/m ³
Mercaptan sulphur (C2H5SH)	maximum 8 mg/m ³
Total Sulphur	maxim 100 mg/m ³ (for a short period of time)

Gross Calorific Value

minimum 9.612 kWh/m³

Hydrocarbon Dew Point

No hydrocarbons shall condensate at a temperature of zero degrees Celsius (0°C) at the delivery pressure.

Water dew point

Not higher than minus 8 degrees Celsius (-8⁰ C) at a pressure of 39.2 barg

Impurities

Content of mechanical impurities: max. 0.05 mg/m³

Temperature

maximum plus 50 °C