

**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 <sup>+</sup> (C6 <sup>+</sup> )	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 <sup>3</sup>
Mercaptan sulphur (C2H5SH)	maximum 20 mg/m <sup>3</sup>
Total Sulphur	maximum 30 mg/m <sup>3</sup> (case of unusual conditions 100 mg/m <sup>3</sup> , for a period of time no longer than 48 h)

**Gross Calorific Value**

Minimum	10.738 kWh/m <sup>3</sup>
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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/m<sup>3</sup>

**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 <sup>3</sup>
Mercaptan sulphur (C2H5SH)	maximum 8 mg/m <sup>3</sup>
Total Sulphur	maxim 100 mg/m <sup>3</sup> ( for a short period of time)

**Gross Calorific Value**

minimum 9.612 kWh/m<sup>3</sup>

**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<sup>0</sup> C) at a pressure of 39.2 barg

**Impurities**

Content of mechanical impurities: max. 0.05 mg/m<sup>3</sup>

**Temperature**

maximum plus 50 °C