

Annex 5A Gas Quality Specification (valid for delivery from Romania to Bulgaria, at reference conditions 25°C/0°C)

Chemical composition (in mol percent)

Methane (C ₁)	minimum	70
Ethane (C ₂)	maximum	10
Propane (C ₃)	maximum	3.5
Butane (C ₄)	maximum	1.5
Pentane (C ₅)	maximum	0.5
Hexane (C ₆₊)	maximum	0.2
Nitrogen (N ₂)	maximum	10
Carbon dioxide (CO ₂)	maximum	5
Oxygen (O ₂)	maximum	0.2

Sulphur content

Hydrogen sulphide (H ₂ S)	maximum	6.5 mg/m ³
Mercaptan sulphur (C ₂ H ₅ SH)	maximum	20 mg/m ³
Total sulphur	maximum	30 mg/m ³ (in case of unusual conditions 100 mg m ³ , for a period of time no longer than 48h)

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 delivery pressure.

Water dew point

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

Impurities

Content of mechanic impurity:	maximum	0.05 g/m ³
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Temperature

maximum	plus 50°C
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Annex 5B Gas Quality Specification (valid for delivery from Bulgaria to Romania, at reference conditions 25°C /0°C)

Chemical composition (in mol percent)

Methane (C ₁)	minimum	70
Ethane (C ₂)	maximum	10
Propane (C ₃)	maximum	3.5
Butane (C ₄)	maximum	1.5
Pentane (C ₅)	maximum	0.5
Hexane (C ₆₊)	maximum	0.2
Nitrogen (N ₂)	maximum	10
Carbon dioxide (CO ₂)	maximum	8
Oxygen (O ₂)	maximum	0.02

Sulphur content

Hydrogen sulphide (H ₂ S)	maximum	6.8 mg/m ³
Mercaptan sulphur (C ₂ H ₅ SH)	maximum	8 mg/m ³
Total sulphur	maximum	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 delivery pressure.

Water dew point

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

Impurities

Content of mechanic impurity: maximum 0.05 g/m³

Temperature

maximum plus 50°C